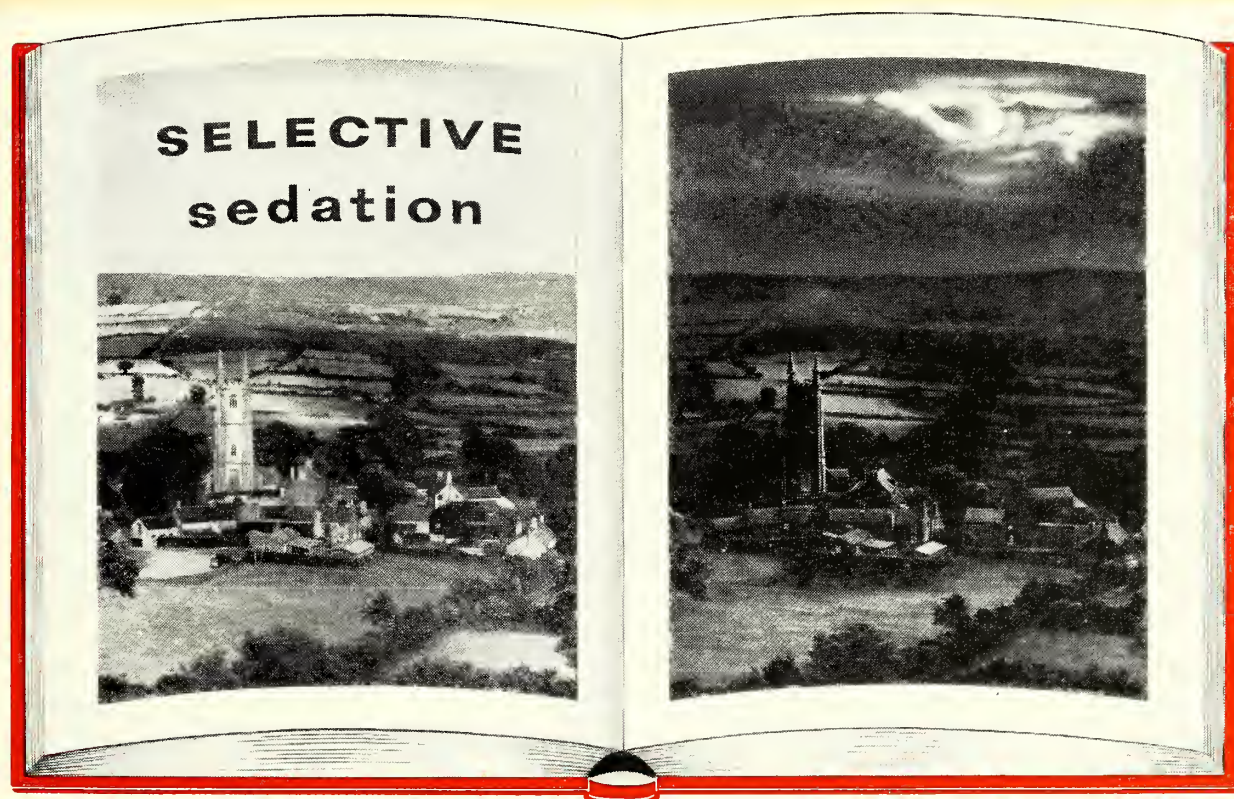


The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JULY 27 1957



DAY & NIGHT

For each individual patient who is in need of sedation or hypnosis, there is a LILLY barbiturate that meets the requirements exactly.

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When rapid action yet brief duration is called for.

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For routine sedation in the anxiety case.

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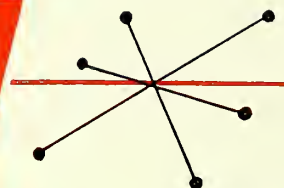
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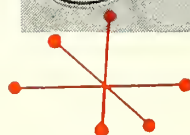
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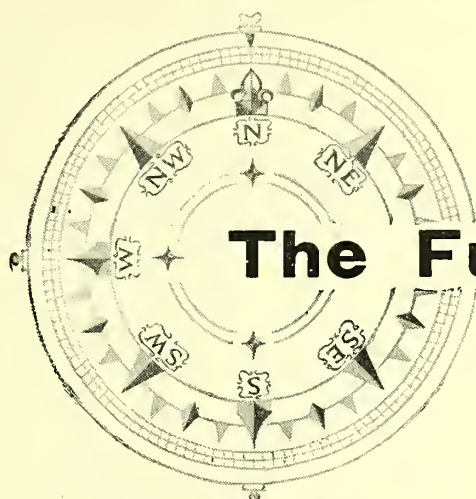
Free delivery in our van area

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**MINIMUM QUANTITY FOR BONUS
TERMS 3 DOZEN**

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*Wright's Antrun Solution (non-poisonous)	<i>Small Bottle</i>	12/-	1/9
Wright's D.D.T. Insecticide Powder Anti-Moth	<i>Puffer Tins</i> <i>Small Containers</i> <i>Medium Containers</i>	7/6 8/6 12/6	11d. 1/2 1/9
Wright's D.D.T. Liquid Insecticide Spray (with Knock-down Pyrethrum)	5 oz. fluid 10 oz. fluid 20 oz. fluid	11/6 17/6 29/3	1/5 2/1 3/6
Wright's D.D.T. Wettable Insecticide Powder	<i>Small Drum</i>	11/6	1/5
Wright's Derris Dusting Powder	<i>Small Containers</i> <i>Medium Containers</i>	7/3 9/9	1/- 1/4
Wright's Derris Liquid Water Spray	5 oz. fluid	20/6	2/6
Wright's Gamma Dust Pest Killer	<i>Small Containers</i> <i>Medium Containers</i>	8/3 10/9	1/1 1/5
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Wright's Wasp Killer (Non-poisonous)	<i>Small Drums</i>	8/-	1/1
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5 mg. & 25 mg.
25 mg. per ml.
1%

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EYE DROPS
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1%
0.5% & 2.5%

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THE Advantages



“Disprin” of

The advantages of Disprin as an analgesic are:—

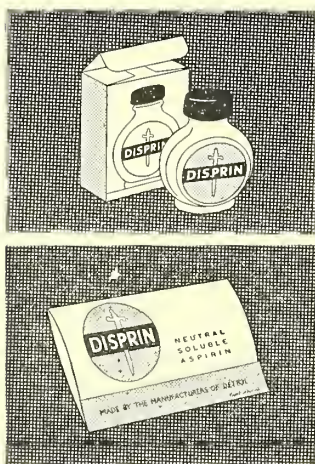
- 1 Disprin is soluble
- 2 Disprin is substantially neutral

Disprin is therefore quick-acting and far less likely than ordinary aspirin to upset the stomach.

Week after week these advantages are made known to millions of readers of the national daily and national Sunday papers,

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Week after week more people ask for “Disprin” for the relief of headache, colds, neuralgia, sciatica, rheumatism and kindred ailments.



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50-tablet bottle 3/3

26-tablet bottle 1/11½

8-tablet foil 9d.

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50-tablet bottle 23/- doz.

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PLASTIC BABY PANTS?

LI-LO is a name all mothers already know and trust. The pearl-white film is lanolin-impregnated—so soft and smooth for baby. LI-LO baby pants are washable, completely waterproof, non-staining and hygienic too! New LI-LO baby pants are in elastic or open leg styles (large and medium sizes) and the famous LI-LO 'Snappifit' design. All three contain lanolin—and all bear the seal of the Good House-keeping Institute. Every pair of LI-LO baby pants is individually packed in an attractive envelope; one dozen of a style and size to a counter display carton.

Popular LI-LO rubber baby pants in superfine white rubber sheeting are still available, in two styles—classic or open leg, in large and medium sizes.

Obtainable from your wholesaler, but should difficulties arise in obtaining supplies, write to us for your nearest distributor.



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THE ORIGINAL
POLYTHENE
FEEDING BOTTLES

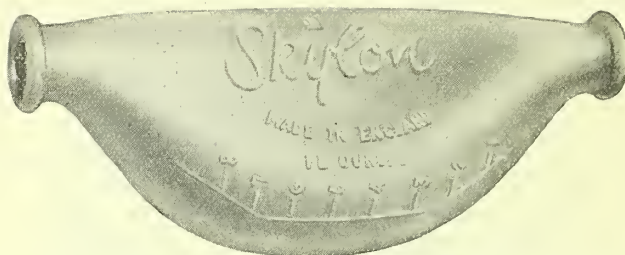
P.A.T.A.

Dual Purpose Feeding Bottle Complete
with Cap & Teat 4/4d. Without Cap 3/4d.
Boat Shaped Feeding Bottle 2/8d.
Narrow Neck
Feeding Bottle
2/6d.

RETAIL
2/8
PRICE

Obtainable from your usual
Wholesaler.

F I B R E N Y L E
L I M I T E D
ACORN 5073/4



Improved production methods have enabled us to reduce the price of our unbreakable, lightweight babies' feeding bottles—they are hygienic, tasteless, odourless, and unaffected by foodstuffs—all standard valves and teats fit necks of boat shaped and narrow neck bottles—full sterilizing instructions with each bottle.

By far the best value for this type of Product



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JACW/FB/3

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HONEYCOMB ALL-PURPOSE
SPONGE FULLY SYNTHETIC

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USUAL DISCOUNTS

Each Sponge in a 3-coloured transparent sleeve—Each dozen in 4-coloured show carton—12 dozens in Cardboard Box.
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THE BIOCHEMIC TABLET

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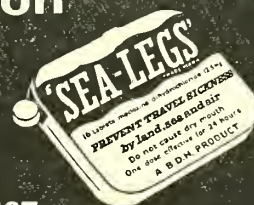
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- One dose gives immunity from travel sickness for 24 hours
- No dry mouth or blurred vision
- Safe and effective for children of all ages

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A B.D.H. PRODUCT



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THIS SUMMER



NON-GREASY BRONTAN tans fast and sells fast, and each tube will show YOU a healthy profit. Now's the time to order for your share of this brisk business which will be continual throughout the summer.

Trade Price 11/3 per dozen
(P. Tax 10/1½)

Retail 2/6 per tube
(inc. Tax)

Bonus for display, 13 to the dozen on parcels of not less than 3 dozen

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PREDICTABLE ANTACID THERAPY



- 1 rapidly relieves gastric pain**
- 2 safely buffers excess acid**
- 3 non-alkalising**
- 4 non-constipating**
- 5 stable, consistent and predictable**

Prodexin tablets provide the advantages of alumina buffer therapy without its disadvantages. The tablets are pleasant to take and when slowly sucked provide antacid control comparable with that obtained by drip therapy. Prodexin, however, does not aggravate acid secretion.

PRODEXIN

Dihydroxy aluminium aminoacetate...0.9 gm.
Magnesium carbonate.....0.1 gm.

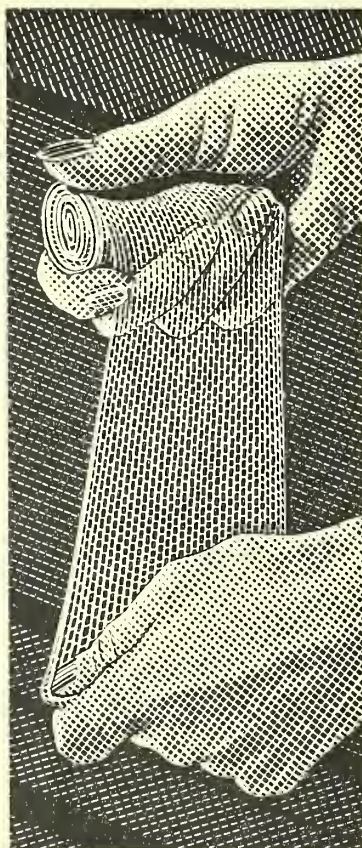
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Dispensing packs of 240 tablets (basic N.H.S. cost 30/4d.)



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NET BANDAGES

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CARN BREA, REDRUTH, CORNWALL

QT3

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Subject to reductions according
to parcel values
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Stafford Allen & Sons



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		CORTISONE (MS&D) EYE OINTMENT 1% 3 G. _____		
		CORTISONE (MS&D) INJECTION (For Intramuscular Injection) 25 mg. per ml. 10 ml. _____		
		CORTISONE ACETATE (MS&D) TABLETS		
			5 mg. 50 _____	
			25 mg. 40 _____	
			100 _____	
		500 _____		
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ADDRESS _____

SIGNATURE _____

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(Prednisolone) 5 mg. 30 _____ 100 _____ 500 _____

'DELTACORTONE' TABS.
(Prednisone) 5 mg. 30 _____ 100 _____ 500 _____

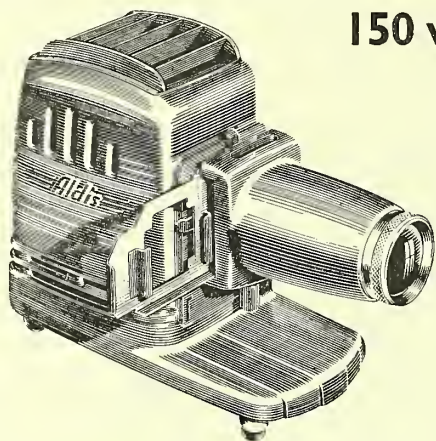
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(Prednisolone (0.5%)—Neomycin) 15 ml. _____

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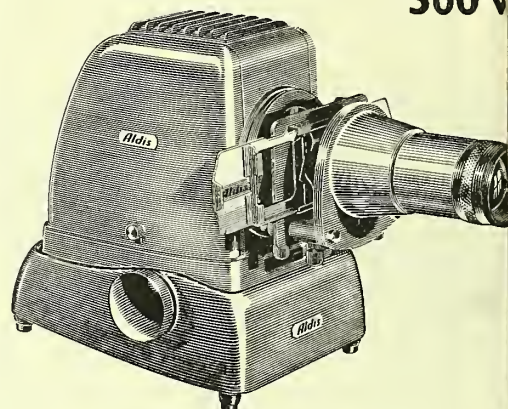


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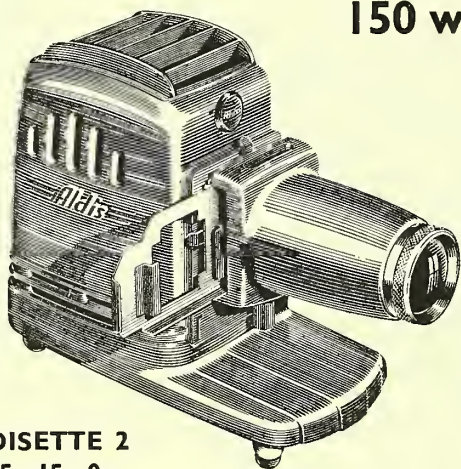
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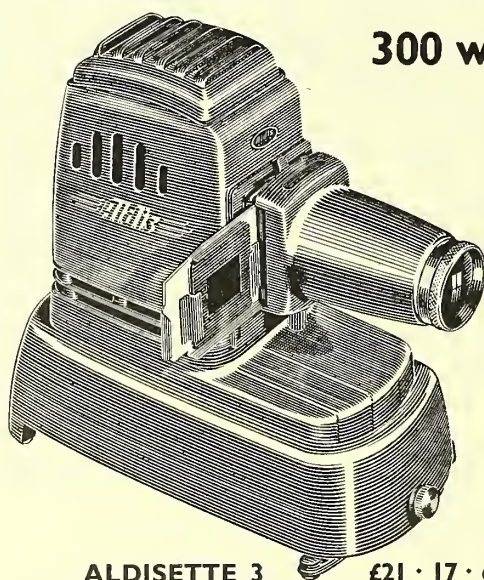


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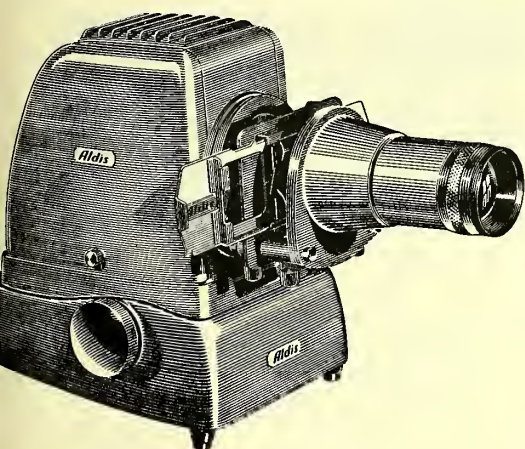
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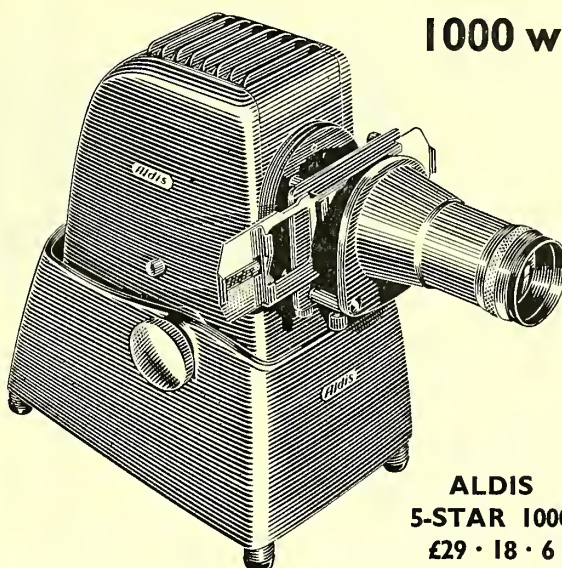
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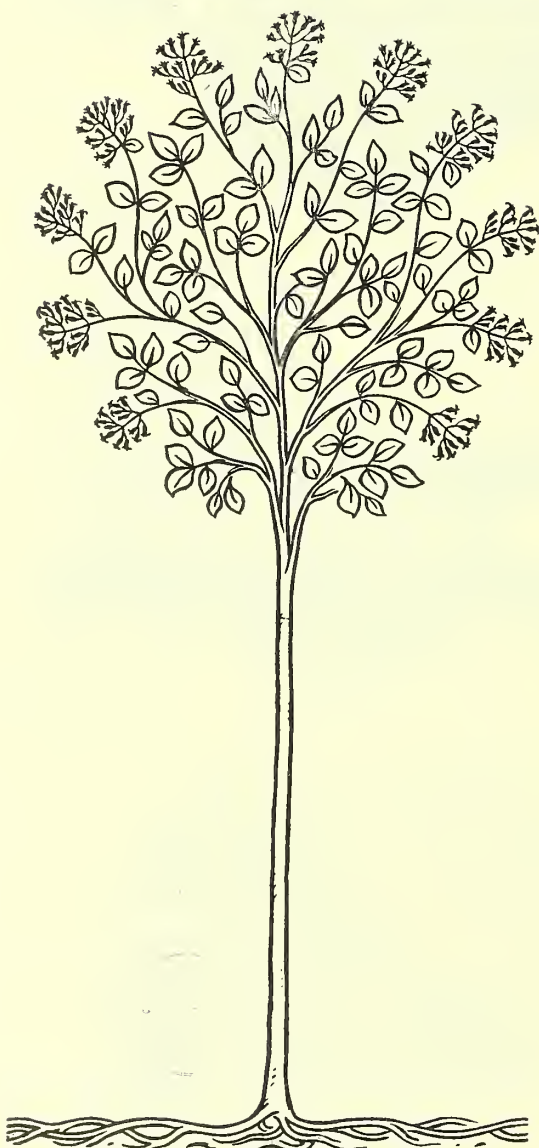


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*The recognised treatment in conditions
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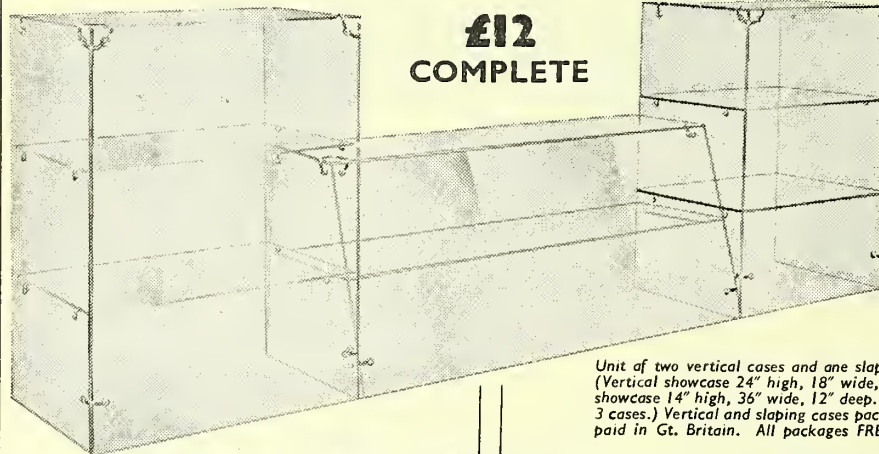
Conditions frequently associated with blood pressure, such as **Menopausal Disturbances, Arteriosclerosis, Sclerosis of the Kidneys, Persistent Cephalalgia, Arthritis and Auditory and Ocular Troubles**, respond to DETENSYL therapy and almost inevitably disappear with the lowering of arterial tension.

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COMPLETE**

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This photograph shows the remarkable result of a simple test on a growing-out perm.

After shampooing, the girl's hair was left damp. The left side was sprinkled with Tress and set in pin curls.

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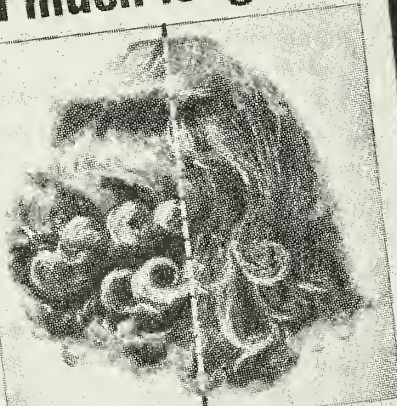
Whatever your type of hair—coarse or fine, dry or normal, over-permed or tangly—Tress will make it obedient, easier to set. Tress takes out all tangles, too, and when you comb, deep-dipping waves and eager-forming curls come

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TRESS sets, curls and conditions your hair

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TRESS was used to set this side of the girl's head. This side of the girl's head was set without TRESS.

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**WOMAN'S OWN
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*

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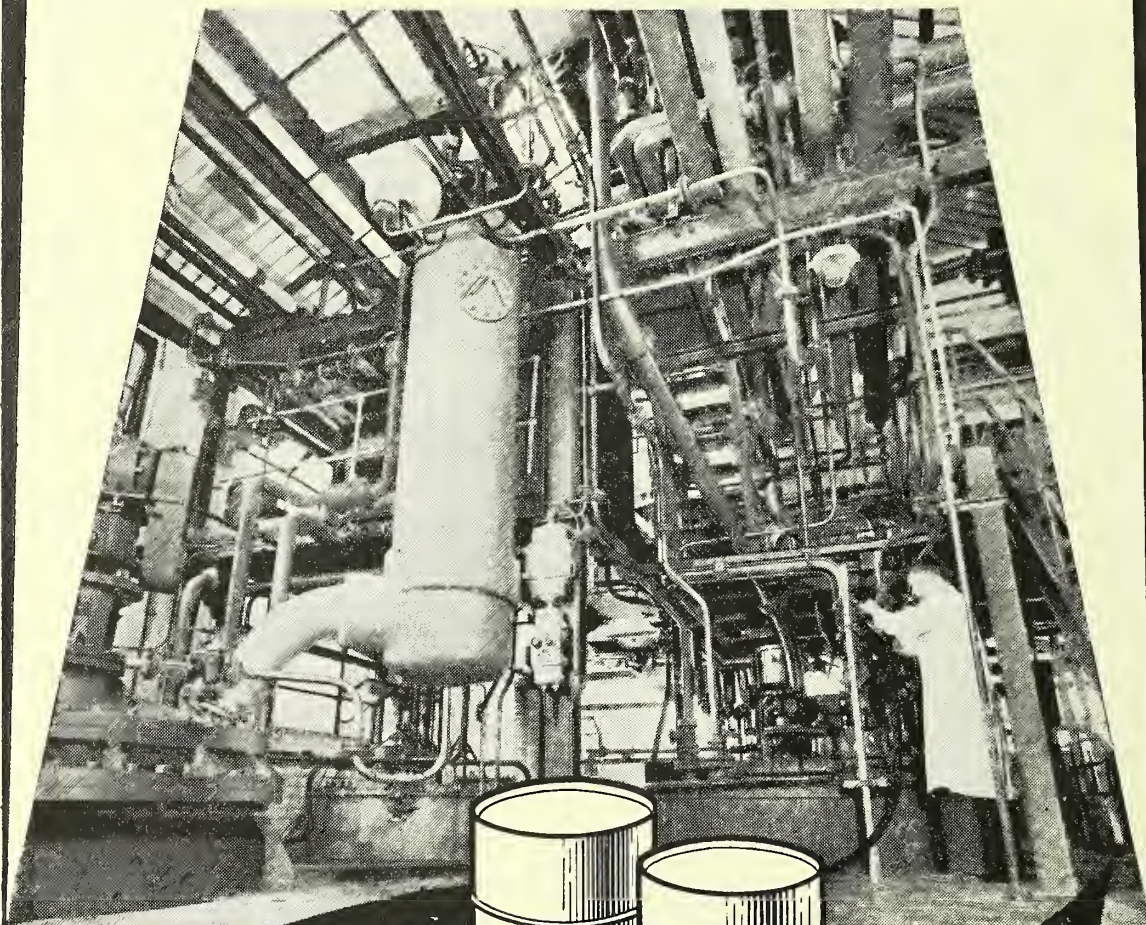
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fulvueflex
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Methylphenobarbitone B.P.
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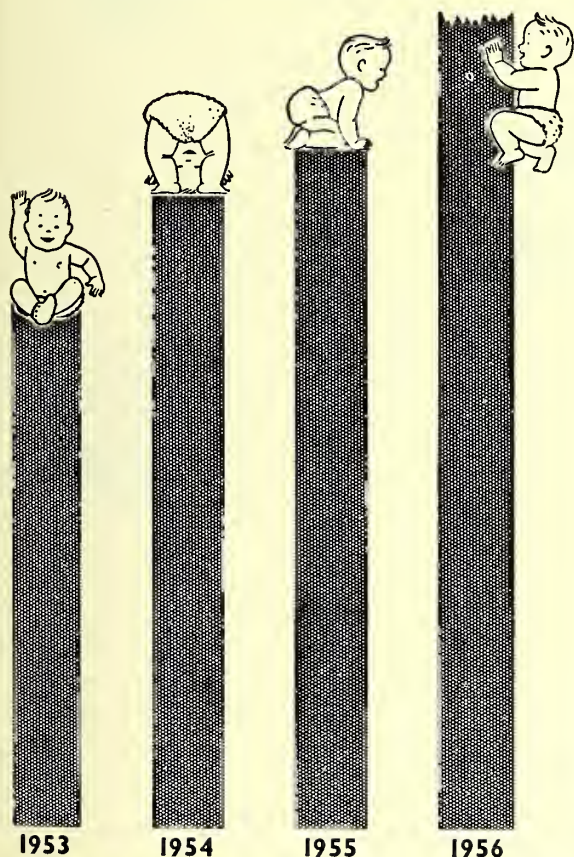


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14 women's magazines, with a high young-mother readership, regularly carry advertisements for Heinz Strained Foods. Direct mailing reaches one mother in every three.

Thanks to this year-round promotion, Heinz Strained Foods business gets bigger every year. But there's still a huge undeveloped potential! When British babies eat as much Strained Foods as Canadian babies, business will be 4 times as big!

See that you get your share of this growing market. Your Heinz representative will be pleased to supply you with attractive show material. Or write direct.

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HARLESDEN, LONDON N.W.10



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 168

July 27, 1957

No. 4040

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The CHEMIST AND DRUGGIST

Volume 168

JULY 27, 1957

No. 4040

Oral Polio Vaccine

LARGE-SCALE TRIALS RECOMMENDED

THE World Health Organisation expert committee which has been investigating an attenuated live poliomyelitis vaccine strongly recommended, at Geneva, on July 19, the commencement of large-scale trials of the new vaccine (see *C. & D.*, July 6, p.1).

Preliminary trials that have taken place on the new vaccine, which can be given orally, failed to reveal any signs of illness or harmful effects either in the persons vaccinated or in members of their families. The committee emphasises, however, that stringent precautions should accompany the large-scale trials of the new vaccine. To prove its complete harmlessness it should first be given to limited numbers of selected groups of persons. Furthermore, the properties of the attenuated strains of virus used in the vaccine should be measured in a number of different laboratories. It is recommended that the trials be carried out on a voluntary basis and with the approval of the local authorities concerned.

Contractors' Problems

ASSOCIATION'S DECISIONS

THE management committee of the Executive Councils' Association (England) thinks that since there is "no stipulation as to formula, etc., of some [proprietary] preparations," their testing under the N.H.S. drug testing scheme is impracticable, and it thinks it "unlikely that manufacturers would agree to disclose formulas" even if sufficient evidence of unsatisfactory products could be found (and of that the committee is doubtful). Those views are given in the report of the committee on its meeting held in London on June 7. At that meeting the committee was considering a proposal of Leicester Executive Council that the testing scheme should be applied to drug-store proprietors and appliance suppliers and should provide for the testing of proprietary preparations. The management committee does not consider that the practical difficulties which discouraged Executive Councils from carrying out tests of drugs and appliances supplied by a drug store or appliance supplier would be removed by legislation. The management committee has complained to the Ministry of Health against a Ministry decision not to pay a chemist contractor for prescriptions lost in the post on the basis of the number declared by the contractor but on the basis of the average number of prescriptions dispensed by the contractor in the two months before and the two months after the month in

which the prescriptions were lost (the period taken for estimating the average cost). The committee thought that the Ministry's action was unjustified because it appeared obvious that the Executive Council (Staffordshire) had taken every care in devising a basis for payment which was reasonable and fair.

Tin Research

OPEN DAY AT LABORATORIES

THE Tin Research Institute invited many scientists and technologists to inspect its laboratories at Perivale on July 10-11 to celebrate its twenty-fifth anniversary. Techniques developed by or used at the Institute were demonstrated by the staff. Far removed from the usual metallurgical application was the use of tin in organochemical compounds. Two such chemicals (tributyl

tin acetate and triethyl tin hydroxide) are being increasingly used as fungicides in wood preservation, water treatment and to inhibit mould growth on painted surfaces. The properties of organotin compounds as weedkillers and pesticides are also under investigation.

Medical Propaganda

DOCTORS URGE STANDARD CARD

TWO motions dealing with pharmaceutical literature were carried at the annual representative meeting of the British Medical Association held in Newcastle-on-Tyne on July 12. Dr. L. G. R. Wand (South Essex) moved "that the co-operation of the pharmaceutical industry be sought in the preparation of standardised literature of a concise nature in respect of products prescribable on E.C.10 forms." Dr. A. B. Davies (chairman, general medical services committee) said that his committee had already asked the Association of British Pharmaceutical Industry that advertising literature should be presented in envelope size, should give the cost of the medicament and if possible the Cohen committee classification. A Lewisham motion, proposed by Dr. J. D. W. Whitney, Kensington and Hammersmith, deprecated the quantity of pharmaceutical advertisements sent



PARTY TO INAUGURATE BRANCH BUSINESS: Southend pharmacists and their ladies were entertained on July 10 at a cocktail party given by Mr. and Mrs. S. E. Dale of Dales (Southend), Ltd., pharmaceutical sundriesmen, to inaugurate the opening of the company's new branch at Sutton Road, Southend. The ceremony was held at the home of Mr. and Mrs. Dale, Tilehurst, Ingatstone, Essex. Over 120 guests attended. During the early evening an orchestra played in the drawing room; after 10 p.m. and into the small hours there was dancing to another band in the billiards room.

to doctors and urged that literature should be presented in a more useful form. He suggested that the industry should produce a standard card which would clearly state the information required about pharmaceutical products. The motion also called for the banning of all unsolicited samples.

Antibiotic Resistance

BLAME ON FAMILY DOCTOR ?

FAMILY doctors were not without blame in the building-up of antibiotic-resistant bacteria, said Dr. J. FRY, Beckenham, at a scientific meeting of the British Medical Association at Newcastle-on-Tyne on July 18. Antibiotics cost the National Health Service £11 millions annually, of which £9 millions' worth was prescribed by general practitioners. Two-thirds of childhood ailments dealt with by the family doctor were of respiratory tract origin and he contended that many of the sick children given antibiotics would probably become well by themselves. Moreover many of the organisms causing those complaints were not affected by antibiotics one way or the other. Dr. R. COOPE, Liverpool, asked for caution in the use of drugs for the treatment of blood pressure. The patient, he said, should find tranquillity not in drugs, but in sensible behaviour and a quieter philosophy. PROFESSOR J. McMICAL, London, however, described the successful results from treating malignant hypertension with new British drugs. Before those drugs were known, the disease had an 80 per cent. mortality one year after diagnosis and 90 per cent. in two years. He reported that doctors were now getting a five-year survival rate of 50 per cent. in selected cases. In the controlled cases significant changes inside the eye reverted to normal in a few months and enlarged hearts returned to their normal size. Among other subjects discussed were the possible danger of x-ray examination during early pregnancy. Recent animal experiments had suggested that the liability of x-rays to induce structural abnormalities was greatest in the first few weeks of life.

A Pharmacist Warned

THIRD BREACH OF CONTRACT

A WARNING to a chemist contractor that greater care must be exercised in dispensing was issued by Surrey Executive Council on July 10. The Council recommended that the Minister of Health should withhold £15 15s. for a breach of contract in which the percentage of sodium bicarbonate found in a sample of mist. mag. trisil. was 5.2 whereas the percentage required was 4.30-4.84. The circumstances of the case were that the prescription had been dispensed by an unqualified dispenser while the pharmacist was engaged on the telephone and unable to supervise the preparation. Reference was made to two previous breaches of contract concerning a deficiency of liquefied phenol in a solution of collut. phenol. alk. and an excess of potassium iodide in a sample of mist. pot. iod. ammon. for which £2 2s. and £4 4s. respectively were withheld.

Portrait Unveiled

TRIBUTE TO COMPANY'S FOUNDER

AT the annual meeting of E. Moss, Ltd., chemists, Feltham, Middlesex, on July 17, a portrait of Mr. E. Moss, founder and chairman of the company, was unveiled. Mr. E. Moss, who is now seventy-eight years of age, qualified as



a pharmacist in 1902, entered business and founded the firm, of which he is still chairman, in 1915. The portrait, painted by the well-known artist Reginald Lewis, was unveiled by Mrs. E. M. Richardson, one of the company's original shareholders, who in the course of her remarks said that it was a matter of great satisfaction to feel that there was now a permanent record of the founder and chairman of the company with which they were so proud to be associated. Mr. E. Moss thanked Mrs. Richardson and his co-directors for the tribute they were paying him. The plaque affixed to the portrait reads: Edgar Moss, Ph.C., founder and chairman.

Retail Sales

BOARD OF TRADE STATISTICS

RECENTLY issued Board of Trade figures show that sales of chemists' goods by independent retailers were 5.6 per cent. higher in April than in March and 15 per cent. higher than in April 1956. Large retailers' sales were 1.2 per cent. lower in April than in March but 11.2 per cent. higher than in April 1956. Sales by Co-operative societies were 1.25 per cent. lower in April than in March but 11.1 per cent. higher than in April 1956.

Chemicals from Oil

I.C.I.'S £100-MILLIONS SEVERN-SIDE PLAN

IMPERIAL Chemical Industries, Ltd., are seeking permission to develop a site of 1,000 acres for the manufacture of organic and inorganic chemicals at Thornbury, Glos. If they secure it the total amount invested in developing the Severn-side site between now and the mid-1970's may well be of the order of £100 millions. One of the factors influencing the company in the choice of

site has been the availability of good port facilities, since oil products would be needed in large quantities.

IRISH NEWS

Wine on Prescription

OPPOSITION TO RECOMMENDATION

SELLING of wine was an old and long-standing right of the pharmacist, and any attempt to curtail that right in any way would be strongly fought by the Irish Drug Association said Mr. Brendan R. Smith (secretary) recently. He was replying to a recommendation in the Intoxicating Liquor Commission's majority report issued recently in Dublin, which states "that there is no justification for giving chemists and druggists the right under a licence obtained by a simple procedure, to compete without restriction with the person whose business is the retailing of intoxicating liquor and who has to fulfil stringent statutory conditions in order to obtain the grant or renewal of his licence. We do not propose that the right to sell should be taken away but we recommend that the law should be amended so as to make the sale conditional on the production of a medical prescription." To suggest that every time a customer purchasing a bottle of some well-known brand of medicinal or tonic wine should have to go to their doctor for a prescription, said Mr. Smith, was ludicrous. Even in the case of ordinary wines many people preferred to purchase those at their pharmacist's rather than go into licensed premises. Dublin pharmacists were strongly opposed to such a recommendation being made by the Commission and regarded it as a wholly unwarranted invasion of their rights. One pharmacist commented: "This recommendation has been made on representations by the liquor trade, and by a Commission upon which pharmacy was not represented. I trust that the Irish Drug Association will fight it tooth and nail."

Students' Conference

HOW TO BOOK

THE organising committee of the Fifth Congress of the International Pharmaceutical Students' Federation which is being held at Butlins, Mosney, co. Meath, September 3-13, is asking students who wish to attend to forward their names, together with a deposit of £2, to the Committee, Pharmaceutical Students' Conference, c/o Butlins, Mosney, co. Meath, as soon as possible. The bookings for the conference to date are over 150, which is well up to those of previous conferences.

Post-graduate Course

PUBLIC PHARMACISTS AS STUDENTS

UNDER the auspices of the Post-graduate Study Group, an intensive course specially designed to meet the needs of hospital pharmacists and compounders in public institutions is being held at the College of Pharmacy, Dublin, September 24-26, inclusive. The course will comprise lectures and demonstrations on sterilisation and aseptic dispensing, and is being con-

ducted by Dr. Richard F. Timoney, M.Sc., A.R.I.C. (dean of the College of Pharmacy). Applications, accompanied by fee of £1 1s., should be sent to the secretary, Post-graduate Study Group, Pharmaceutical Society of Ireland, The College of Pharmacy, Shrewsbury Road, Ballsbridge, Dublin, before August 10. While the course is open to all pharmacists, preference is being given to those engaged in hospitals and public institutions, and particularly those from rural areas.

NEWS IN BRIEF

In the first six months of 1957, 100,000 copies a month of *Family Doctor* pamphlets were sold through retail chemists.

To meet the increased demand for drugs resulting from the outbreak of Asiatic influenza, a large quantity of Veganin tablets were sent by air to Burma, recently, by the makers: William R. Warner & Co., Ltd.

LATEST arrangements designed to facilitate the re-admission into the United Kingdom of samples taken abroad temporarily by British commercial travellers are described in Notice No. 106 of the Commissioners of Customs and Excise.

THE administration of a safety organisation and the duties of a safety officer in a small works are set out in a booklet "Safety Organisation in Small Works" issued by the British Chemical Industry Safety Council. The Council co-ordinates the safety and medical activities of the Association of British Chemical Manufacturers and the Association of Chemical and Allied Employers.

SPORT

Golf.—LIVERPOOL CHEMISTS' GOLFING SOCIETY, at Ormskirk golf club on July 17. *Evans cup*, W. H. Shaw, 95 (77); *Summer prize*, G. W. Clinton, 80 (78); *Johnson & Johnson, H. Standish*, 87 (78); *Liverpool Chemists' Golfing Society*, J. W. Smith, 84 (80); *Visitors' prize*, G. Thomson, 84 (72); R. Tillet, 82 (75).

MANCHESTER AND DISTRICT CHEMISTS' GOLFING SOCIETY were entertained by Messrs. James Woolley, Sons & Co., Ltd., Manchester, at Mere golf and country club on July 17. The Woolley trophy and prize was won by J. B. Jenkins, 71 net. Second was R. G. Jacob, 72 net. At a whisk drive in the afternoon, Mrs. R. Demaine tied with Mrs. J. Pritchard.

IRISH CHEMISTS' GOLFING SOCIETY: At Birt golf club recently for P. C. Cahill trophies. *Stroke*: 1, W. Butler (16), 71; 2, H. Palmer (14), 73. *Bogey*: 1, T. Walsh (8), 1 up, 2, T. J. Lynch (6), 2 down. *Best first nine*: C. A. Collis, 34; *best second nine*: Jack Foley, 35. At Castle golf club, Rathfarnham, Dublin, on July 17, to play for Kodak and Aspro prizes. *Stroke*: 1, J. J. Dawson (18), 67; 2, M. Nicell (18), 71. *Bogey*: 1, J. Howard (17), all square; 2, H. Palmer (14), 1 down. *Best first nine*: M. Baynes, 34; *best second nine*: P. Twohig, 33.

Cricket.—FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, met the Monken Hadley cricket club at Hadley Common, Barnet, on July 18. The home team batted first and were dismissed for a total of eighty-nine. The pharmacists replied in failing light to win the match by reaching ninety-three for seven wickets.

LOCAL OFFICERS

NATIONAL PHARMACEUTICAL UNION
Manchester and Salford.—*Chairman*, Mr. H. Fletcher; *Vice-chairman*, Mr. R. O. Jones; *Treasurer*, Mr. J. Tomlinson; *Secretary*, Mr. A. E. Thorpe, 777 Stockport Road, Levenshulme.

TOPICAL REFLECTIONS

By Xrayser

Public Opinion

One of the mysteries of our modern times is the infrequent appearances of "Pro Bono Publico," "Justitia," and others of that zealous family for whose benefit editors like to earmark a page or two in each issue of their paper. A similar reticence seems to have overtaken "Galen," "Pharmakos" and "Pestle," whose prolific output on matters pharmaceutical occasioned wonder and admiration amongst your readers in bygone years. Have they, perchance, in their handling of sedatives, tranquillisers and ataractics, vicariously absorbed some of that equanimity, and thus lost the burning zeal to set the world to rights? Such thoughts have passed through my mind from time to time in recent years. I have blamed apathy; I have reviled television; I have thought that letter writing had become a lost art. But your issue of last week suggests that my apprehensions have been a little unfounded. Outbursts of popular feeling are the result of provocation, and the occasion has been wanting. The stimulus has been found in the publication of the Council's education plan, and the steps you have taken to sound public opinion by means of a *questionnaire* (p. 78). The first reactions reported are, as one would expect, varied, and while it will be of great interest to see an analysis of the returns received, it is to be hoped that the letters on the subject, published on pp. 79–80, are only the forerunners of an exhaustive correspondence. Reasoned argument is perhaps even more valuable than answers to a series of set questions, no matter their comprehensiveness.

Differing Standpoints

There are present in the situation, as you point out in your leading article on the subject, several dilemmas, and no one can lay claim to the prescience which would lead to a solution of our problems. Conditions have changed so rapidly and so completely in one generation that any forecasting of the shape of things to come for those now on the threshold of their career is quite impossible. It may be that the direction of our path will be influenced by the educational policy laid down. It may be that events themselves will take charge, despite anything that the Council may plan. About all that can be demanded is that the registered pharmacist shall control pharmaceutical duties in relation to the public, no matter how methods of dispensing or points of distribution may alter. I think it likely that the number of points of distribution will diminish. I think it very unlikely that the traditional position of the chemist in his pharmacy will change at all. In my opinion it is a most dangerous doctrine to suggest that, while a high academic standard may be necessary for certain positions in pharmacy, it is not really necessary for retail work. The pharmacist who qualified thirty years ago was conversant with all the drugs he handled. They may have been fewer and they were not of the same complexity, but he knew all about them, as he should. The same must hold good today. It does not seem to me to be necessary for the present-day pharmacist to make all that he handles—we know he could not—but it is still vitally important that he should be on terms of familiarity with their composition and their action.

A Pointer?

It seems to me that your second editorial article, "A Strategic Gain," may give a lead to the pharmacists in Britain. In commenting on the outcome of the Fair Trade Commission's inquiry into trade conditions in pharmacy in the Republic of Ireland, you quote the Commission as having gone on record with the belief that there is a need to confine medicines other than poisons to qualified chemists, because of the nature and composition of many modern medicinal preparations. The Pharmaceutical Society is laying down the conditions of a new high standard for pharmacists in this country. Can it at the same time convince Parliament, as our Irish colleagues have convinced their Commission, that we have a position warranting similar belief and eventual recognition?

OVERSEAS NEWS

RUSSIA

Reduced Drug Prices

PRICES of many antibiotics and other medicines in Russia are being reduced from August 1—some by as much as 50 per cent.—according to Tass, the Soviet news agency.

MALTA

Vaccine Supplies from Britain

POLIOMYELITIS vaccine is being supplied by Britain to Malta. Dr. A. Hyzler (Maltese Minister of Health) told the Malta Legislative Assembly on June 4 that on June 1 a first consignment had been received, with which 5,000 children aged between one and fourteen could be vaccinated in a month. The same amount would be made available every month.

AUSTRALIA

Influenza Vaccine

AUSTRALIAN scientists have evolved a vaccine to combat the influenza virus which has swept Asia. The director of the Commonwealth Serum Laboratories in Melbourne (Dr. P. L. Bazley) said on June 8 that the first issue of several thousand doses of the new vaccine which was in full-scale production was expected to be available for general use in seven days. It would be made available first to people most susceptible to infection such as quarantine officers, airport officials and hospital staffs. Later it would be released to the public.

CANADA

Trend of Poliomyelitis

A CAMPAIGN of immunisation against poliomyelitis in Canada appears to be having a definite effect against the disease. The number of cases has declined from 3,691 in 1953, 1,163 in 1954, to 550 in 1955, and 275 in 1956. An official of the Canadian National Health and Welfare Department stated recently that he believed that the immunisation programme, carried out on approximately three million of the 5,250,000 children in Canada under sixteen years of age, "had contributed" to the downward trend of the poliomyelitis cycle. He emphasised that the major rôle of the vaccine was against the paralytic species of the disease, and it would be premature to say categorically that the vaccine was responsible for the downward trend in the poliomyelitis cycle. Salk vaccine was introduced in Canada in 1955. One million children in the five to eight age group had been inoculated by the spring of 1956.

UNITED STATES

"Drugs Used by Athletes" Charge

THE annual convention of the American Medical Association on June 5 approved a resolution ordering a study into "shocking reports of widespread use of stimulants by athletes in the United States." The resolution has created considerable controversy in the United States, and particularly in regard to a section of the resolution which condemned the uses of amphetamine and its derivatives and calling for "forceful



NIGERIAN DELEGATION: A delegation from the eastern region of Nigeria, conferring recently with members of the staff of Pfizer, Ltd., Folkestone, Kent. Delegates include, left to right: Dr. S. E. Inoke (Minister of Finance), Mr. D. Ibekwe (legal adviser to the Nigerian premier), Dr. M. I. Okpara (Minister of Health), Dr. Ikejiani, Chief E. H. Nwuke (Parliamentary Secretary, Ministry of Finance), and Mr. O. Ugodi (Permanent Secretary to the Minister of Commerce and Industry).

action to halt any uses of the drug to make super athletes." Dr. H. Berger told the convention that there were reports that the drug was being used on a widespread basis by athletes and their coaches despite the fact that amphetamine was "by far the most dangerous drug existing today." He thought that the worst abuse was by boxers, professional and college footballers, athletes and high-school athletes in that order. On June 6, the Health News Institute (an information service centre for various pharmaceutical manufacturers in the United States) challenged Dr. Berger's assertion that amphetamine sulphate was dangerous. "Clinical experience of more than twenty years has conclusively demonstrated that amphetamine sulphate is one of the safest drugs available to medical practice," the institute stated.

"A Danger to Children"

DOCTORS attending a recent meeting of the American Academy of Paediatrics in Washington, recently, were urged to warn parents of the danger of aspirin poisoning. Speakers at the meeting pointed out that more than 100,000 children were sent to accident hospitals each year as a result of taking aspirin in excess. In a report of its activities for 1956, the National Institute of Health, Washington, noted that Americans annually consume 12 billion tablets of aspirin, or about 6,000 tons of the drug. "Despite the fact that aspirin is universally used as a pain-killer, a fever-reducer, and an anti-rheumatic drug," the report said, "comparatively little is known of the way it acts in the body."

NEW ZEALAND

Plans to Cut Drug Costs

NEW regulations are being prepared by the New Zealand Ministry of Health to control expensive prescribing under the provisions of the Social Security Fund and to control claims for excessive numbers of general medical services provided by social security. That information was given on June 1, by the New Zealand Minister of Health when he released the report of a special committee which has been investigating pharmaceutical benefits under the fund. No details were given about the regu-

lations but *The Auckland Star* commented "... it can be forecast confidently that the Government will not implement one particular recommendation of the committee—that a flat-rate charge be introduced for prescriptions. . . ." The Minister said that the committee had examined in detail all the factors which were believed to have contributed to the rise in expenditure on those benefits, and of those the general rise in costs and the introduction of new and expensive methods of treatment in recent years had been the principal factors. "It seems clear that the advances made in developing new and effective drugs is one of the main reasons for rising costs of pharmaceutical benefits," he said.

The main conclusions and recommendations of the committee were that: Considerable saving might be effected by the remission of customs duty on items specified in the drug tariff; a review of the basis of pricing prescriptions should be carried out, followed by further periodic reviews at suitable intervals; a charge on prescriptions should be introduced, at a flat rate for each prescription, exemptions to be granted on economic grounds; amended regulations to control expensive prescribing should be introduced; amended regulations to control claims for excessive numbers of general medical services should be introduced; the publication of a "positive drug tariff" should be expedited and that the more expensive items should be indicated; a special committee of pharmacists should be appointed to review the drug tariff with regard to cost, and that periodic reviews should be carried out of items which have already been accepted as a charge on the fund; test prescriptions should be taken; a pharmaceutical statistics section should be established, with special reference to doctors' prescribing patterns.

The committee pointed out in its report that while the population of New Zealand had increased by 21.4 per cent. in 1947-56, the increase in the cost of pharmaceutical benefits was 181 per cent., which was attributed to the increased number of prescriptions per patient per annum and to the rise in the average cost of prescriptions.

DRUG ADDICTION "NOT SERIOUS" IN U.K.

Government report to United Nations

A RECENTLY published report made by the United Kingdom Government to the United Nations states that drug addiction is not a serious problem in the United Kingdom.

The number of known addicts to manufactured drugs in the United Kingdom in 1956 was 333, of whom 163 were male and 170 female. Included in the total were seventy-seven doctors, two dentists and twenty nurses. 176 addicts used morphine either alone or in conjunction with other drugs; sixty-four, pethidine; fifty-three, diacetylmorphine. Only six used cocaine. Thirty-nine new cases of addiction were reported during the year. There were three recidivists.

After giving the statistics of drug addiction in the U.K., the report says that the figures given are obtained from information derived from a number of sources including the results of inspection of the records of wholesale and retail suppliers and police reports; the figures are a reliable estimate of the total extent of drug addiction in the United Kingdom. The Government is satisfied that if addiction were to exist on a larger scale it would come to its notice.

During the year the manufacture by Allen & Hanburys, Ltd., of pethidine; by May & Baker, Ltd., of methadone; and by T. & H. Smith, Ltd., of hydromorphone, morphine-N-oxide and dihydromorphone, was discontinued. The experimental manufacture of hydromorphone and dihydromorphone by

J. F. Macfarlan & Co., Ltd., and of methadone, metopon and iso-methadone by T. & H. Smith, Ltd., was discontinued. The manufacture of cocaine and pethidine by T. & H. Smith, Ltd., was continued—but no longer on an experimental basis.

No significant change in the character or extent of illicit traffic in narcotic drugs in the United Kingdom was noted in 1956. There was an increase in the number of seizures of opium and in the quantity involved, but that was not considered to have any significance. There was a further decrease in the number of seizures of cannabis and in the number of convictions for offences involving this drug. There was no evidence of the smuggling of narcotic drugs through the United Kingdom.

In 1956, 157 persons were prosecuted for offences against the Dangerous Drugs Act and Regulations, and, of those, 151 were convicted. There were three convictions for offences involving raw opium and nine involving prepared opium. There were 103 convictions for offences involving cannabis.

During the year twenty-nine persons were convicted of unlawfully procuring or possessing manufactured drugs. The majority of those were addicts who obtained drugs by forged prescriptions, or by getting supplies simultaneously from more than one doctor. A further eight persons were successfully prosecuted for failure to keep drugs in a locked receptacle, or failure to maintain appropriate records.

NORTHERN IRELAND HEALTH BOARD

Report for 1956-57 tells of rising costs

THE Northern Ireland Health Services Board's annual report for the year 1956-57 issued recently, disclosed that the number of chemists providing services increased by two to 613, and the number of shops operated by them increased by five to the record total of 689. Three of the new shops were opened in towns and villages which previously had no chemist.

Prescription forms dispensed during the year showed a decrease of 42,143 or 0.94 per cent., in comparison with the number dispensed the previous year. Each of the first three quarters of the year showed an increase over the corresponding quarter last year, the increase during the nine months being 80,801. However, there was a marked decrease of 122,944 forms during the winter quarter. The apparent fall in the number of prescriptions per form after December 1956 was no doubt to some extent caused by the new prescription charges.

The average cost per form rose steadily throughout the first nine months reaching a new peak in December 1956 of 9s. 10d. per form. The average cost per form was 8.55d. greater in December 1956 than in December 1955, an increase of 9.3 per cent. and that increase was not accounted for by a corresponding rise in the cost of drugs over the period.

Dealing with the remuneration of

chemists, the report states that the total amount paid to chemists by the Board during the year was £1,942,024 and, in addition, £243,644 was collected and retained by chemists in charges.

The cost of the provision of pharmaceutical services increased by £228,225 over that of the previous year.

During the year 100 tests of drugs and appliances were carried out and the results in ninety-four cases were satisfactory. In two cases where a slight deviation was found the chemist was cautioned and in the remaining four cases the results were submitted to the services committee for investigation. During the year the Board's pharmaceutical officer visited a number of pharmacies to inspect the dispensing equipment and accommodation. In one case where the report showed that the premises and equipment were very unsatisfactory and the stock of drugs and appliances were small, the matter was referred to the services committee for investigation. The majority of pharmacies were found to be satisfactory.

Twelve complaints against eleven chemists were investigated by the services committee. Two chemists were found to have dispensed on test prescriptions appliances not in accordance with the standards required, one being cautioned and a deduction ordered from the remuneration of the other.

P.A.T.A.

Quarterly meeting of Council

THE assistance which had been given by the Proprietary Articles Trade Association to individual members in enforcing the price conditions attached to products was commented upon by Mr. H. E. CHAPMAN (secretary) at the quarterly meeting of the council of the Proprietary Articles Trade Association held on July 11. Under Rule 31 of the revised constitution the council was entitled to authorise assistance in connection with any legal proceedings of common interest to members. The secretary pointed out that steps had been taken along the lines suggested and since the Mindel case (see *C. & D.*, March 30, p. 339) counsel had reviewed the procedure and confirmed its effectiveness.

Further Evidence Wanted

Mr. H. G. MOSS said that in areas where price-cutting continued he was looking for some further practical evidence of the usefulness of Section 25 of the Restrictive Trade Practices Act; he hoped that other manufacturers whose goods were being cut would follow the example of the Beecham companies.

MR. L. D. SMITH (president) paid tribute to the late Mr. J. E. French, who for many years, until his retirement in 1951, had been a member of the retail section of council and had also served on the executive committee. He also reported that the National Association of Retail Druggists had invited Mr. Chapman to be a guest at the N.A.R.D. convention being held at Minneapolis in October, and had also invited him to address the convention. County Laboratories, Ltd., wrote that representation on the P.A.T.A. council by one company of the Beecham group, namely, Macleans, Ltd., was regarded as adequate, especially as Macleans, Ltd., were represented on the council and the executive committees by the managing director (Mr. Alexander). County Laboratories, Ltd., were therefore resigning their seat on the council. County Laboratories, Ltd., would continue their policy on price maintenance and would have the benefit of Mr. Alexander's direct reporting on the proceedings of the P.A.T.A. It was decided that the vacancy on the manufacturers' section should not be filled until the election in December. The council endorsed the suggestion made by Mr. J. E. Goodall that the quarterly supplement of additions to and alterations in the P.A.T.A. List should be printed separately and not as part of the *Quarterly Record*, with which it would still be circulated. It was considered that that arrangement, which would enable the cumulative supplement to be slipped into the main List of Proprietary Articles, would be of greater convenience and use to the Association's members.

At the luncheon preceding the council meeting, Mr. Allen Aldington (a member of the Pharmaceutical Society's Council) was the guest of the council. Mr. Aldington said that the P.A.T.A. was doing a valuable job for pharmacy. The advantage of the P.A.T.A. as an organisation, he said, was obviously its tripartite composition.

IN PARLIAMENT

By A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

MR. J. K. VAUGHAN MORGAN (Parliamentary Secretary to the Ministry of Health) told MR. N. PANNELL, in a written answer on July 17, that it was intended that the increased contributions towards the cost of the National Health Service under the National Health Service Contributions Act should begin on September 2.

Experiments on Animals

In the House of Lords on July 18, LORD DOWDING drew attention to the present situation regarding painful experiments on animals and asked the government to institute an inquiry with a view to repairing loopholes in the existing law and thereafter to ensure by adequate inspection that the law was properly enforced. He realised that it would be quite useless to ask that the practice of vivisection should be abolished. There were 2,500,000 experiments carried out each year in about 520 laboratories but no more than five inspectors. There was little information about the vast modern trade in animal life and the suffering involved in the wholesale manufacture and testing of so-called therapeutic drugs by the large chemical firms. LORD COHEN OF BIRKENHEAD said that no wanton cruelty was inflicted upon the animals in the course of physiological, therapeutic and bacteriological investigation. LORD CHORLEY referred to the progress of veterinary science and said that he disliked the arrogance of those who attacked scientific progress of that kind when they appropriated to themselves the title of humanitarians. Surely the medical scientists were just as much, and perhaps still more, deserving of the term humanitarian. LORD CHESHAM said that it must be remembered that the Home Office had no vested interest in vivisection: the Department was simply charged with the duty of seeing that the law was properly enforced. No one could perform an experiment on a live animal without a licence. Having been granted a licence, he might do nothing unless the animal was anaesthetised to prevent it from feeling pain except in certain circumstances where certificates came in. The remarks by Lord Dowding about the inspection system being a "hollow sham" did the greatest disservice to a conscientious and hard working body of public servants.

Caponised Chickens

MR. D. HEATHCOAT AMORY (Minister of Agriculture, Fisheries and Food) told SIR J. LUCAS on July 22 that it was already known that the feeding of chicken necks which contained implants of synthetic oestrogens was dangerous to meat eating animals and a warning was given against the practice in the Ministry's advisory leaflet, but he was considering whether regulations should be made.

MR. J. K. VAUGHAN MORGAN (Parliamentary Secretary to the Ministry of Health) told MRS. L. JEGGER on July 22 the following were the composite packs now available at a single charge under the National Health Service:—Atomiser, smog mask, vaporiser, hypo-

dermic syringe, urine sugar analysis set, colostomy apparatus, suprapubic belt, douche, Higginson's enema syringe. The British Medical Association had made some suggestions for additional packs which were now being discussed.

Restrictive Practices Court

SIR REGINALD MANNINGHAM-BULLER (Attorney General) told MR. E. D. L. DU CANN on July 23 that Restrictive Practices Court proceedings had been started in twenty cases. The work involved in preparing them for trial was very considerable, and it was most unlikely that any of them would be ready for final hearing before the early part of 1958.

Increased Postal Charges

MR. ERNEST MARPLES (Postmaster-General) announced on July 18 increased postal and telephone charges to take effect on October 1.

Among acts to receive Royal Assent on July 17 were the National Health Service Contributions Act, 1957, and the Thermal Insulation (Industrial Buildings) Act, 1957.

LEGAL REPORT

Thefts by a "Dispenser"

AT Surrey quarter sessions, Kingston-on-Thames, on July 12, William Charles Gill, no fixed address, described as "a dispenser formerly employed by a well-known company of chemists," was sentenced by the sessions appeals committee to two years' imprisonment for stealing articles worth £8 8s. from Bentsalls, Ltd., Kingston, and for stealing a bicycle at East Molesey. Gill was stated to have had four previous convictions, including one for stealing a quantity of chlorodyne.

Narcotics Unlawfully Procured

AT Long Ashton, Somerset, magistrates' court, recently, Gladys M. Davies, a nurse, Windermere Road, Patchway, was placed on probation and ordered to pay £15 costs on a charge of stealing about gr. 2 of morphine and pethidine, value 9s. 5d., from a cupboard at Clevedon Cottage Hospital. She was placed on probation for three years. A detective-sergeant said that Davies had been deported from Canada in 1955 because she was a drug addict. In the early part of the present year she was conditionally discharged in Bristol after having been accused of altering a doctor's prescription for Seconal capsules. In her defence at Long Ashton a solicitor said that Davies had had an outstanding career. She had served with the Princess Mary Royal Air Force Nursing Service during the 1939-45 war, and had worked as a nurse in this country, Rhodesia, East and South Africa, Canada, etc. Since committing the offences she had undergone treatment at Barrow Gurney Hospital, from which she had been discharged three or four days before the case came up. Favourable reports from a probation officer and testimonials from past employers were produced in court.

COMPANY NEWS

CROOKES LABORATORIES, LTD. —Viscount Furness has been appointed to the board.

C. F. GERHARDT, LTD. — The company announce important changes. On July 23 they took over the assets and goodwill of Huffer & Smith, Ltd., which they are reconstituting as a subsidiary company. The offices of C. F. Gerhardt, Ltd., and S. B. Penick & Co., Ltd., were transferred on that date to New Era Works, Purley Way, Croydon, Surrey (telephone: Thornton Heath 4266), from which address the three companies of the group will operate. Huffer & Smith, Ltd., besides continuing to manufacture their range of fine chemicals, are also taking over the manufacture and distribution of all chemical products formerly handled by C. F. Gerhardt, Ltd., which company is henceforth specialising in botanical drugs and associated products, and in the manufacture and supply of their proprietary specialities.

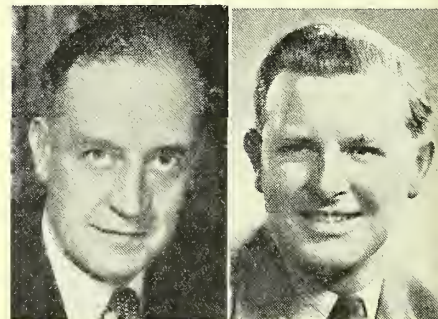
New Companies

P.C. = Private Company; R.O. = Registered Office

J. J. WILLIAMS (CHEMISTS), LTD. (P.C.). — Capital £5,000. To acquire the business of a chemist and druggist carried on by John J. Williams, M.P.S., 291 Gloucester Road, and Northumbria Drive, Bristol, etc. Directors: John J. Williams (director, Kenbury (Chemists), Ltd.), Violet M. Williams and Paul J. Williams.

OVERSEAS VISITS

MR. B. D. THORNLEY (managing director) and **MR. C. R. B. WILLIAMSON** (marketing controller) of Benger Laboratories, Ltd., have just returned from a three-week fact-finding tour of Canada and the United States. Nearly fifty



Mr. B. D. Thornley Mr. C. R. B. Williamson

interviews were obtained with various heads of Government departments and pharmaceutical bodies, which resulted in a much clearer definition of the marketing problems of both countries.

BUSINESS CHANGES

Appointments

SHULTON (GREAT BRITAIN), LTD., 160 Piccadilly, London, W.1, have appointed Mr. G. S. Sladden their manager.

BENGER LABORATORIES, LTD. —Dr. G. P. Ellis, B.Sc., F.R.I.C., has been appointed head of the company's organic chemistry research team and not as previously stated.

PERSONALITIES

MR. S. T. PUGH, M.P.S., Langley, Birmingham, has been appointed a justice of the peace for Worcestershire.

MR. F. ORRELL, M.P.S., 126 Kedleston Road, Derby, gave reminiscences of his career when he spoke at Belper Rotary Club, Derbyshire, recently.

MRS. B. PARRY, M.P.S., has been installed president of the Rhyl Inner Wheel Club. Mrs. Parry was chairman of the Rhyl Branch of the Pharmaceutical Society in 1955.

MR. H. N. BREAM (chairman and managing director, Dalmas, Ltd., Leicester) has been promoted Knight of the Order of St. John of Jerusalem. Particularly interested in St. John and the British Red Cross Society, he has been a member of those organisations for many years.

ALDERMAN H. R. METCALF, F.P.S., Newbury, Berks, is retiring from the Newbury town council on account of ill health. He was mayor of Newbury, 1929-30, and has been a prominent figure in local government for thirty-six years, including ten years as a Berkshire county councillor.

ALDERMAN F. H. SWIRE, M.P.S., Halifax, Yorks, who recently returned after three weeks in the United States of America, says that British shops are, generally speaking, superior in every way to American largely because in America the individual shop has gone out of existence. A good shopping practice, however, which he thinks might be introduced in Britain, is the staggering of opening hours.

MISS PEGGY HAYBALL, M.P.S., Grimsby, Lincs, who was recently appointed president of Grimsby and Cleethorpes Pharmacists' Association is the third member of the family to hold the position and not as previously stated. Her father, the late Mr. E. T. Hayball, was president in 1933 and her brother, Mr. John Hayball, held office in the Association's diamond jubilee year, 1954.

MR. PETER A. BALLARD, who is the newly-appointed sales manager of Distler, Ltd., will be operating from the company's new sales office and showroom at 5 Conduit Street, London, W.1. Before joining Messrs. Distler Mr. Ballard was with Arvin Electric, Ltd., for whom he had been sales manager since 1955.



MR. ERIC MURGATROYD, M.P.S., 4 Woodlands Grove, Cottingley, Bingley, Yorks, who has been forced through lack of time to withdraw from active membership of the Bradford men's inter-league table-tennis team which competes in the first division of the Yorkshire League, entered his first table-tennis competition as a student at Bradford Technical College. He won

the men's singles and was a member of the winning doubles pair, but it was not until after he had completed his studies at Edinburgh in 1945 that he started meeting first-class opposition in the re-formed Bradford table-tennis association. Within two years he had acquired sufficient skill and experience to hold his own with the best and, about eight years ago, he was selected to play his first inter-league representative game. One of the most consistent of Bradford table-tennis-league players in the post-war era, he had become an almost automatic choice for representa-



tive matches. Despite an unorthodox pen grip he is a relentless attacker and hits the ball with tremendous power. In 1954-55 and 1955-56 he headed the Bradford league's first division individual averages, and last season, though he failed to complete a "hat-trick" of successes, was second in the individual rating. The men's singles title is the one major league honour that has eluded him, but he has offset that, in a way, by twice winning the Shipley and district singles. Although Mr. Murgatroyd's table tennis is now of a more leisurely kind with a local team, it is certain that he will long be ranked as one of the top four Bradford players.

DEATHS

CUMMINS.—On July 7, Mr. Ernest Cummins, M.P.S., 62 Victoria Road, Scarborough, Yorks, aged sixty-four. Mr. Cummins qualified in 1923 and had been in business in Scarborough for many years.

GOULDING. — On June 4, Mr. George Goulding, M.P.S., 20 Glebe Farm Road, Glebe Farm, Birmingham, aged seventy-three. Mr. Goulding was a past-chairman of the Birmingham Branch of the Pharmaceutical Society, and had also held office in the Birmingham Branch of the National Pharmaceutical Union.

HICKS.—On July 11, Miss Florence Marjorie Hicks, M.P.S., 33 West Ella Road, Kirk Ella, Yorks, aged fifty-four.

LESLIE.—On July 14, Mr. Frank Leslie, M.P.S., 171 Marine Court, St. Leonards-on-Sea, Sussex, aged seventy-three. Mr. Leslie was formerly in business at Catford, London, S.E.6.

LOFTHUS. — Recently, Mr. Cyril H. Lofthus, M.P.S., 59 Low Street, Banff, aged forty-nine. Mr. Lofthus was manager of the Banff branch of Boots, Ltd.

MILLS.—On July 17, Mr. Arthur George Edward Mills, M.P.S., 6 Weston

Avenue, Polegate, Sussex, aged forty-seven.

ORKNEY.—On July 15, Mr. Robert Orkney, M.P.S., Rothes, Waggon Road, Leven, Fife. Mr. Orkney qualified in 1922.

PARRY. — On July 8, Mr. David Parry, M.P.S., 10 King Street, Thetford, Norfolk, aged sixty-three. Mr. Parry was apprenticed to Mr. B. Taylor Lloyd, Aberystwyth, Cardigans. After service in the 1914-18 war, he studied at the Westminster College of Pharmacy, qualifying in 1920. He gained experience with Messrs. Bradley & Bourdas, Pont Street, London, W.1, and then went to Thetford, Norfolk, as manager to Mr. H. J. Bromhall. On Mr. Bromhall's retirement in 1951 he became the senior partner with Messrs. A. G. Large, M.P.S., and J. C. Baker, M.P.S.

TAYLOR.—On July 16, Mr. Harry Haigh Taylor, M.P.S., 4 Greenacres Road, Oldham, Lancs, aged sixty-four. Mr. Taylor was in business in Oldham for over thirty years. Prior to that he was employed by Mottershead & Co. (Established 1790), Ltd., Manchester. He was treasurer of the Oldham Branch of the National Pharmaceutical Union for more than twenty years. He was a member of Oldham Pharmaceutical Committee.

INQUEST

Coroner Warns About Supervision.

—The Birmingham coroner suggested recently that treatment of patients at a mental hospital with a tranquillising agent should be discontinued so long as staff shortages and overcrowding continued and it was impossible to keep the patients under constant watch. The inquest was on Lavinia J. Higgitt, 28 Deepdale Avenue, Sheldon, a mental patient at All Saints Hospital. A night nurse at the hospital said that Miss Higgitt was in a room with ten other patients "because of the overcrowding difficulties." "Sometimes because of the overcrowding and staff shortage," said the nurse, "we have to work the wards alone." She had to look after ten rooms, housing fifty-seven patients. Early on June 6, she visited Miss Higgitt and found her lying on her stomach with her face in the pillow. The hospital's medical officer said that Miss Higgitt was a schizophrenic voluntary patient. She had been given reserpine, which had a tranquillising effect. On the day before her death she had 2.5 mgm. Asked if he thought the drug had any connection with the woman's death, the doctor replied: "That is difficult to say. We have had two cases at our hospital in which people who have been given the drug have had a violent fit: they had never had a fit before in their lives." He agreed that people who had the drug needed "very close supervision," but added "the difficulty is the overcrowding and shortage of staff."

Coroner: "Wouldn't it be better to discontinue the use of that type of drug in those circumstances?" — "It has some remarkable and effective results. Personally I wouldn't like to discontinue it."

PHOTOGRAPHIC NOTES

"Perfect Colour Camera."—The Hunter 35 camera with Steiner f/3.5 lens is claimed by the suppliers, R. F. Hunter, Ltd., 51 Gray's Inn Road, London, W.C.1, to be the "perfect colour camera." It has a three-speed shutter, centrally placed direct-vision viewfinder, depth-of-focus scale, accessory shoe and exposure guide. A full range of accessories is available.

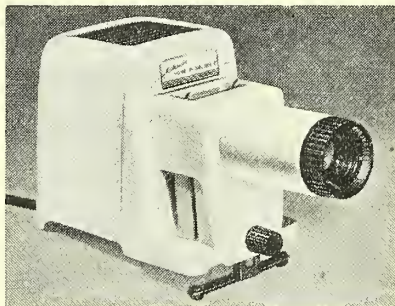
TV-style Previewer.—Forerunner of a complete new range of 35-mm. colour equipment, the Argus previewer marketed by Hanimex (U.K.), Ltd., 345 City Road, London, E.C.1, has a large television-style screen and double-element lens, allowing easy viewing by two or more persons. Its built-in lighting system provides even distribution of light from edge to edge. The light automatically turns on with finger tip pressure on the top of the slide. The viewer has a two-tone plastic finish.

Booklet for Colour Cine Workers.—Priced at 2s. 6d., a new Kodak publication "Better Movies in Colour" is attractively presented and colourfully illustrated. The book has been planned by Kodak, Ltd., Kingsway, London, W.C.2, to show the amateur movie-maker how to get the best results when using Kodachrome film. It describes how to focus the camera, how to set the scene and "create interest," the correct method of splicing the processed film, best way of storing films, and such matters. It also contains exposure tables, a depth-of-field table for indoor filming, and a table of projection distances.

Five-ft. Pictures at 12 ft.—For the projection of colour slides the Aldis projectors distributed by Neville Brown & Co., Ltd., 77 Newman Street, London, W.1, include a variety of models to meet varying requirements. "Every

Aldisette projects a 5-ft. picture at 12 ft." declare the makers, and the Aldisette, with 8.5 cm. anastigmat lens, is in three models, two of them operating at 150 watts and one at 300 w. There are Aldis projectors, with 4-in. f/2.8 anastigmat lens, operating at 300, 500 and 1,000 w., and the Airequipt automatic slide changer, with thirty-six free slide frames included in the purchase price, is also available.

Home Projector for Transparencies.—The Kodaslide home projector, introduced by Kodak, Ltd., Kingsway, London, W.C.2, for viewing 2 x 2 in.



slides, takes both 24 x 36-mm. (i.e., the normal 35-mm. film size) and 28 x 40-mm. transparencies (from Kodak Bantam Colorsnap camera). The transparencies may be in standard card mounts or slide frames, or mounted between glass. When a second slide is inserted it pushes the first one down until it appears at a side opening, from which it may be easily removed. The projector has a 150-watt lamp.

Northern Ireland Agents.—Fred Storey, Ltd., 44 Hill Street, Belfast, have been appointed Northern Ireland agents of the products of Gevaert, Ltd., Great West Road, Brentford.

TRADE NOTES

Special Offer.—M. Beetham & Son, Imperial Lane, Cheltenham, Glos., are making a special offer of their talcum powder in tin container from August onwards. Though the retail price has been reduced, the retailers' profit margin is increased.

No "Fifty" Size.—Ortho Pharmaceutical Ltd., High Wycombe, Bucks., announce that Rarical iron-calcium tablets, in bottle of fifty, are being withdrawn from the company's product range on August 1. The bottles of 100 and 1,000 remain available.

An Advertisement Corrected.—Wal-lart Development Co., Ltd., 27 Albemarle Street, London, W.1, announce that all home and overseas inquiries should be directed to them and not as stated in the company's announcement in the July 20 issue of the C. & D.

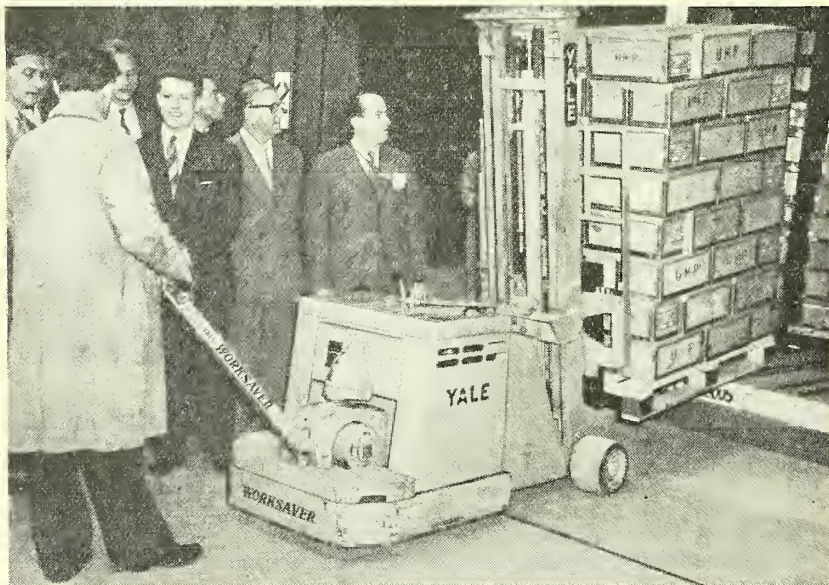
Discontinued.—Paines & Byrne, Ltd., Pabym Laboratories, Perivale, Greenford, Middlesex, are discontinuing on August 1 the issue of the following specialities: Pabestrosalve, Viormone salve, oleum Ketodestrin and Solestrin. Orders are being met until existing stocks are exhausted.

Pocket-size Pack.—S. Maw, Son & Sons, Aldersgate House, Barnet, Herts, announce the introduction of a pocket-size pack of Maw's Acriseptine in addition to the standard pack. The pack is presented in a display outer of 1 doz. Acriseptine has been placed in category 4 of the "Cohen" list.

Hair Lacquer in New Shade.—Steiner, 66 Grosvenor Street, London, W.1, have added a new shade, "candle-light," to their range of Starmist hair-lacquer colours. The new shade is described as having "the soft, dreamy glow cast by the flickering flame of a candle." Distribution is being organised for retail sales as from October 1.

Product Free, Syrup Taxed.—Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, state that, under a purchase-tax exemption order made earlier in the year, Atarax brand hydroxyzine hydrochloride was freed from purchase tax. The Customs and Excise authorities have ruled that the order did not apply to Atarax syrup, and tax again becomes chargeable to the trade on July 29. Messrs. Pfizer have declared that tax due on all dispatches between the date of the order and July 29 are being borne by the company.

Deleted From List.—The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, announce that the following products are not included in their new (1957) price list, recently issued. While stocks last the products are available at the prices shown in the company's 1956 general price list. Collosol iodine, 0.8 per cent. injection (30-mil vial); Collosol kaolin (16-oz. and 2½-lb. packs); Lacto-calamine cream (16-oz. pack); Collosol manganese (six ½-mil and six 2-mil ampoules); Crookes mercurochrome, 2 per cent. and 5 per cent. solutions (all packings); Neo-ferum intravenous, 10-mil. ampoules (all packings). Since July 15 the basic trade discount on Collosol calamine lotion has been changed from 33½ per cent. to 25 per cent., with consequent small increases in purchase tax.



SPEEDIER DISPATCH OF CONTAINERS: Considerable savings in time and man-power have been effected by Universal Metal Products, Ltd., Salford, 6, through a new palletisation system they have installed for loading and transporting boxes of collapsible tubes and metal cans. Ten pallets are used per lorry load, and only two men (driver and stacker-truck operator) are required. Handling time has been reduced to about twenty minutes against the previous one and a half hours to load a full lorry. Between sixty and 140 boxes (according to size) are taken in one pallet load, the height of which can be varied according to accommodation at the customer's end.

Hair Lacquers in Colours. — Highlight coloured lacquer, the manufacturers of which are Akos Chemicals, Ltd., 519 Cambridge Heath Road, London, E.2, is a lacquer that sets and tints the hair at the same time. It is



stated to contain "no flaky gums." Highlight coloured lacquer is packed six bottles (one of each colour and one clear) in the display outer shown. The colours are blue heaven, sun gold, auburn, brazil and gun metal.

Prizes Through Chemists. — Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks, are running during the summer months through chemists only a Tek "smile" competition, in which the three competitors with the most



delightful smiles in each of the company's sales regions are being invited to London, with a relative or friend, and accommodated there for two nights with all expenses paid. The finalists are being entertained by the J. Arthur Rank organisation at Pinewood Studios on September 27, and the three national winners are being photographed there by Cornel Lucas and presented with their photographs to keep. The illustration shows the range of display material available free to all chemists stocking Tek.

"Loveliest Hair" Competitions. — SCOTT & BOWNE, LTD., 50 Upper Brook Street, London, W.1, are inviting salesgirls in pharmacies to take part in a competition to find among them the fairhead and brunette with the loveliest hair. The competitor sends with her entry form (obtainable from the company's representatives or direct) a snapshot or photograph of herself. Her employer must have agreed to release her for a week-end in Luxemburg (the

prize) and must also agree to display a showcard describing a concurrent public competition organised by STA-BLOND LABORATORIES, LTD., 50 Upper Brook Street, London, W.1. The public competition aims to select by the same method the "Queen of Fair-heads" and the "Queen of Brunettes." Attractive prizes are being offered. Competitors in the public competition must send with their snapshot or photograph an empty packet, sachet or bottle label from a Sta-Blond or Brunitex shampoo, plus a Magicurl bottle label or capsule card. Closing date for both competitions is August 31.

NEW PRODUCTS AND PACKS

Neomycin Specialities. — Glaxo Laboratories, Ltd., Greenford, Middlesex, introduced on July 22 two new medicinal specialities. Neomin tablets contain, in each uncoated, scored tablet, 350 mgm. of neomycin (equivalent to 500 mgm. of neomycin sulphate). The pack is a bottle of twenty. Neomin oral liquid is a lime-flavoured solution for administration to infants. Each fluid ounce contains 350 mgm. of neomycin. The pack is a bottle containing 2 fl. oz.

Morphine Antagonist. — Roche Products, Ltd., 15 Manchester Square, London, W.1, announce that Lorfam brand levallorphan tartrate, recently introduced as an ingredient of Pethilorfan, is now available for individual use as an antagonist to morphine, pethidine, Dromoran, etc., particularly in emergency. Pethilorfan is subject to D.D.A. regulations by virtue of its pethidine content only. Entry should therefore be made in the pethidine section of the register. Lorfam brand levallorphan tartrate (not D.D.A.) should not be confused with Dromoran-Roche levorphanol tartrate (D.D.A.) for which it is an antagonist.

"Nappy" Pin with Safety Cap. — George Goodman, Ltd., Robin Hood Lane, Birmingham, 28, are marketing a "really safe" nappy pin, the Snap-lock, which it is claimed cannot open accidentally. The pin has a double locking brass cap which "clicks" open and shut. The pin is made of stainless steel wire with polished point to slip easily through thick "nappies." The caps are finished in white, pink, blue or



lemon, and the enamel "does not chip or even boil off." The pin carries the seal of Good Housekeeping Institute.

Mixed Fruit Pastilles. — Potter & Clarke, Ltd., Barking, Essex, are marketing a new product, Potter's glucose mixed-fruit pastilles in five flavours (lemon, lime, orange, raspberry and blackcurrant). The pack is a ½-lb. tin.

Holiday Closings

ROBINSON & SONS, LTD., Wheat Bridge Mills, Chesterfield, Works and offices, Friday evening, July 27 till Tuesday morning, August 6 (small staff on duty for urgent orders).

Exhibitions and Fairs

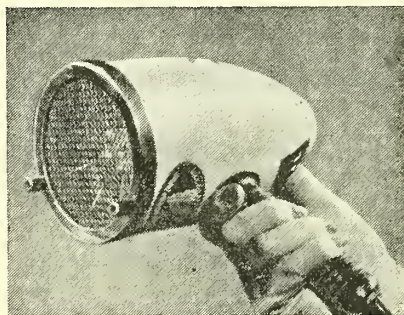
LEIPZIG SPRING FAIR, 1958. March 2-11 (revised dates).

BRUSSELS AND INTERNATIONAL EXHIBITION, Brussels, Belgium, April 17 to October 19, 1958. Details from British Overseas Fairs, Ltd., 21 Tothill Street, London, S.W.1.

New Veterinary Products. — The Crookes Laboratories, Ltd., Park Royal, London, N.W.10, are now marketing injection of pituitary (posterior lobe), B.Vet.C., in 15-mil vial (10 international units per vial); and Vitaquota, a vitamin and mineral food supplement in 3-lb. tin for all species of animals.

Veterinary Implants. — Evans Medical Supplies, Ltd., Speke, Liverpool, 19, have introduced Hexavan brand implants for veterinary use, each containing 15 mgm. of pure hexoestrol. Hexavan implants are available in tins of twenty-five and 100. An Evans veterinary implanter, designed to enable up to the maximum dose of four implants to be administered in one simple operation, is also available.

Hair Dryer for Home Use. — An electric hair dryer with 5-in. diameter face now being marketed by Southern



Airframe Products, Ltd., 78 Buckingham Gate, London, S.W.1, is suitable for sale to home users. It incorporates features resulting from experience of earlier models over a period of three years by professional hairdressers. The face covers the back, front or side of the head in one position. A thumb switch gives single-hand control of "hot," "cold" or "off." The cast metal casing protects the dryer against accident, and the fan is driven by a 2-pole shaded motor free of radio or television interference. The handle is rubber-encased to give safety and a firm grip when the hands are wet, and the casing is of cream stove enamel with chromium edging and gold-finish grid. The dryer is subject to 25 per cent. discount to retailers.

INFORMATION WANTED

The Editor would appreciate information about the following:

Dri-pac weed-killer

MORE LETTERS ON THE THREE-YEAR COURSE

An Apprentice-master's View

SIR,—I have always been interested in pharmaceutical education and think I have trained more pharmacists than any member of the existing Council of the Society. Every apprentice I have trained qualified and each has come back to see me and acknowledge the debt they owe to their one-time apprentice-master. To me it is obvious that the Pharmaceutical Society itself has no confidence in its diploma. That is to be deplored. In the session 1949-50 no diploma students were accepted at the school of pharmacy, Bloomsbury Square. The policy of restricting entry into the school to students studying for their degree was supported by the governing body, which was at that time the Council of the Pharmaceutical Society. In 1948 when the Society made three passes at a higher level obligatory before apprenticeship I strongly opposed. In 1950 the Society rescinded the condition, reverting to five "ordinary" level passes because of the great decline in recruitment. This fact, together with the two-year final course, is the reason why we are so short of pharmacists today. In my presidential address to the Liverpool Chemists' Association on September 20, 1956, I was the first person in the country to deplore the new regulations envisaged for March 1, 1958, and I spoke strongly against them. The regulations which come into effect on that date are not the regulations formulated by the Education Committee of the Pharmaceutical Society, but are the regulations foisted on them by the education subcommittee of ten, two of them retail pharmacists and eight academic, a composition that does not reflect the register, which is 89 per cent. retail. My main objection to the new regulations is that, for the diploma, the ultimate end is the same but the method of attaining is made more difficult. My last apprentice had difficulty with his biology. I applied for an educational grant for him and got it. If a similar case comes to me in 1958 I cannot take him or her on, though I can still advise him or her to take up medicine, veterinary medicine, or dentistry, or to take a degree in science with the hope of a grant for his maintenance and fees. Thus in 1958 it will become more difficult to enter a pharmaceutical profession that permits the prostitution of its qualification by unqualified persons. The standard required for entry from March makes pharmacy a vocation rather than a profession. It is obvious to me that the diploma will become extinct, and the work of the Society will be solely to maintain a register of premises, having liquidated its primary function of being an examining body. That function should have been jealously guarded.

BERNARD KELLY,

President, Liverpool Chemists' Association

Chairman, Liverpool Branch

Chairman, Liverpool (Pharmacy) Advisory Committee

[Mr. Kelly, who claims to have been in his time "one of the youngest pharmacists on the register, and who was a candidate (though an unsuccessful one)

for the Pharmaceutical Society's Council in 1944, considers that educational policy should be "tempered by the need for business as well as scientific training." He added in his election address in that year "We are not raising a race of future university dons, but men with the requisite scientific background, whose business lives must be spent in commerce." Mr. Kelly, by giving so many entrants their practical training, has done his best, in a commendably practical way, to prepare them for the commercial life he believes will be theirs. But it would appear that the Council either wants, or is resigned to, a rather different future for its members. The new generation will be highly educated, naturally, and will spurn the present "sidelines" of retail pharmacy. But who will be their paymaster, and what will be in the pay packet? — EDITOR.]

Not So Well Trained ?

SIR,—With over half a century's experience of pharmacy in every branch I have formed the opinion that the present-day pharmacist is not so well trained as he used to be. The training the apprentice received in the several years of his apprenticeship at the age when it was assimilated and not forgotten served for a life-time. He was accustomed to handle dozens, if not hundreds, of crude drugs, and their preparations, and learned something of their source, cost, appearance, smell, taste, etc. Their peculiarities and ways of manipulation were impressed on his memory. The present-day pharmacist goes to his college, performs his practical work in an artificial atmosphere, "swots" up his theory to pass his examination, and then goes into the pharmacy with a jumbled and hazy knowledge of numerous subjects, none of which seems to be in the least connected with his work. One such graduate remembered that "glyc" meant sweet, but could not remember which was white and which was black in glycerin and glycyrrhiza! The average chemist's shop today has less than 10 per cent. of its space devoted to pharmacy. Many have much less than that. What does pharmacy consist of? Dispensing stock mixtures, many of which are bought ready-made, and counting out proprietary tablets identified only by their brand or trade mark. The active ingredient has an official name which is seldom used and a chemical name which is meaningless to the pharmacist. The university graduate is expected to spend a year at that before he is allowed to open his own shop, or to manage a general store, with a drug department in the corner, owned by one of the larger concerns. On his own account the pharmacist finds that, in order to make his living, he must spend most of his time selling goods that are anything but pharmaceutical: cheap jewellery, flower and vegetable seeds, paints and varnishes, electric torches, not to mention cosmetics, photographs and an agency for "D. & P." Is that the reward for a university graduate? With the spectacular advances in the practice of medicine there has been

equal regression in the practice of pharmacy. In order to regain its prestige as the counterpart of medicine, it is clear that some change must be made and some scope provided to utilise and advance the training that the pharmacist has received in his college course. The only way in which that can be done is to follow the continental idea. The pharmacy should be solely a pharmacy. The pharmacist should be able to, and should, undertake clinical analysis to assist the medical practitioner in his diagnosis. It should not be necessary for the physician to have to send a specimen away to get a "blood count" before he prescribes when there is a qualified pharmacist nearby. He should have the same facilities that he had in his hospital. Those who have worked in a hospital know how much the medical staff rely on the work done by the pharmacist and the pathological laboratory. The question is, will the pharmacist be adequately rewarded for the training and the extra equipment and space required if he becomes a pharmaceutical chemist and ceases to be a general dealer with pharmacy as a sideline?

Manchester

J. R. WALMSLEY

Short-sighted Policy

SIR,—The Society's educational policy is short-sighted and does not in any way better conditions in pharmacy, or alleviate the present shortage of qualified staff. That shortage will in due course have disastrous results on the retail side. The older pharmacists who are owners of one-man pharmacies will become fewer and fewer, through retirement or death, and private pharmacies could gradually become extinct. The multiples, controlling a high proportion of the qualified, would then be in a position to wipe out the remaining small retailers. The policy of the Society is undoubtedly to bring the education of students into line with that of other professions. They do not appreciate, however, that there is no comparison between them. To work in a shop is to some people below their dignity, and even for the person who is interested the end must be worth while. Even financially, the reward would not justify their qualifying in pharmacy. With their academic education they would find promotion in other fields far more rapid, and the salaries greater. Prospects are grim for the small retailer. Yet he, after all, is entitled to demand equal consideration from the Society for his problems.

CLAIMANT

Academic Misfits

SIR,—I feel that the three-year course and one-year practical will tend to produce academic misfits, who will take years to settle down in what is essentially a profession where human relationships matter more than atomic chess. I do not advocate putting back the clock, but I feel that, so far as retail pharmacy is concerned, there is still no substitute for three years spent learning one's job in a good business.

Coventry

S. J. STARKEY

DIPLOMA VERSUS DEGREE

Mr. C. G. Drummond discusses an urgently topical problem

THE position of the degree and diploma in pharmaceutical education was discussed by Mr. C. G. Drummond (a member of the Executive of the Scottish Department of the Pharmaceutical Society) when he addressed the annual meeting of members of the Society resident in Scotland, on June 12. The following are extracts from his address:—

Objective Approach

The whole position must be approached objectively and dispassionately. There can be a tendency to worship at the shrine of a university degree for the status and the cachet it may bestow. There can also be a tendency, which must be guarded against, for the holder of a diploma to regard the introduction of degree courses with a certain suspicion. Mankind is prone to accept the dictum that "what was good enough for us should be good enough for them."

The Ordinance for the Glasgow degree was approved fifty years ago, and it is claimed that that for Manchester dates from 1904—three years earlier. The first actual award of the Glasgow B.Sc. in pharmacy was made in 1927, as was that of the London B.Pharm., so that there have been university graduates in pharmacy for thirty years. Other universities have followed suit, until there are now six universities granting degrees: Glasgow, Leeds, London, Manchester, Nottingham and Wales. It is natural to assume that other university centres will enter the lists.

The courses leading to a degree in earlier days, both at Glasgow and Manchester, attracted few students, since they did not carry exemption from the Society's own Qualifying examination, but following a reorganisation of the Ph.C. Qualifying examination and the London B.Pharm. certain exemptions were granted which were later extended to the other universities. It was reported to the Council at its meeting in February 1957 that data received from the schools of pharmacy showed that there were 563 students attending the first year final course for the Society's diploma, and 264 students for the final course for an approved degree in pharmacy. It should be remembered, in considering the apparent ratio in the figures quoted, that the 563 diploma students were embarking on a two-year course, while the 264 degree students had three years ahead of them. Nevertheless, the figures indicate the direction in which pharmacy is travelling.

On his recent visit to Edinburgh, Mr. D. W. Hudson, now president of the Pharmaceutical Society, said in answer to a question, that he believed it was in the best interests of pharmacy that the degree route should be followed wherever possible. Numerous statements to that effect could be quoted from those in whose hands educational policy rests. But no official pronouncement, backed by collective responsibility, has so far appeared.

In the meantime, sweeping changes have been taking place, or are about to

take place, in the Society's own examinations. The Intermediate examination is being abolished. There are to be new conditions for registration as a student, classified under the headings of "general" education and "scientific" education. It is clearly anticipated that in England registration will be effected through the General Certificate of Education in chemistry, physics and biology at advanced level. In Scotland the Society's Entrance examination will still be the likely course because of differences in the form of the G.C.E. and the Leaving Certificate of the Scottish Education Department. There are three important points here.

1. That the Society's Entrance examination will admit to the Ph.C. diploma and not to a degree.
2. That the G.C.E. on registration, will, in general, admit to diploma or degree.
3. That the Society will no longer have any control over the courses leading to student registration, and no recognition of the teaching centres will be required by the Society.

Three-year Course

The Council already has powers [since used (see *C. & D.*, July 6, p. 5)] to extend the academic course for the final examination from two years to three, thus making the time required for degree or diploma identical in length. I leave you to judge whether, given the choice at "student registration" of three years leading to a degree or three years leading to a diploma, the figures for the degree will rise to a greater proportion than was disclosed for 1956. It seems certain that, in areas where the choice is available, the degree will be the gainer. If, in order to ease the burden on the students, or for any other reason, the Council should consider the advisability of increasing the length of the course for the Qualifying examination from two to three years, it will no doubt have to take into account the recent developments in the new Colleges of Advanced Technology, where college diploma courses are being offered in a number of subjects, and there is a move to include pharmacy as a course.

Is a diploma, either of the Pharmaceutical Society or of a technical or technological college, or a degree as at present granted, likely to provide the type of person best suited to the traditional rôle of the pharmacist? Neither the degree nor the diploma takes cognizance of the long history and tradition of the practice of pharmacy. The curricula have been loaded with scientific facts. What do we teach our young students of their ancestry or of their heritage? But the question we must address ourselves to is:—What precisely is the Society's objective? There are hints from Olympus. There are changes in the curriculum. There are adjustments in the course for the Society's diploma. There are apparent efforts to keep the Society's qualification abreast of the degree, in subjects,

and in the length of course. But there is also an apparent bias in favour of the degree becoming the chief avenue to registration. Is the Society preparing to achieve a situation whereby Section 3 of the Pharmacy Act, 1954—that section which places on the Council the duty of appointing examiners to hold examinations for the purposes of the Act—will be found to be redundant, so that it will be removed from the Statute Book? Is the result (if not the purpose) to be that eventually the Pharmaceutical Society will merely act as a registering body? Do the signs point that way? And if that is the intention, do we agree with it? There is no immediate answer to those questions, but members of the Society must continue to ask them.

While certain members of Council still proclaim that it is in the best interests of pharmacy that the degree route should be followed, it is found that many do not use that route to registration. That, at the moment, may merely be regrettable; it could be serious. But the Society (or the Council) still appears to realise that the Society's own diploma must engage its attention. Evidence of that is forthcoming in the appointment of a special subcommittee which is finalising its proposals for the Ph.C. examination.

Meantime a further complication has appeared. The Government has given its blessing and its financial help to the establishment of advanced scientific and technological courses, leading to the granting of diplomas in advanced technology. It appears that an attempt may be made by some of the colleges so recognised to extend technological courses to pharmacy. The needs of pharmacy appear to be quite adequately catered for by the present machinery, and there seems to be no reason for large Government expenditure on a subject which is producing a sufficient number of suitably trained and fully-qualified people. There is no suggestion that the Society's diploma or the degree in any way fall short of the necessary high standards. It would be wise to safeguard the Society's statutory position in such a matter. That attempts are being made to secure recognition for diplomas in technology is apparent from the report of the Education Committee to the May Council meeting.

Encouraging Registration

While everything possible should be done to encourage the graduate to recognise the advantages of registration, the Society must retain full control of the conditions admitting to the Register. It has a statutory duty. It must be recognised that the degree, much sought after in manufacturing and research under present conditions, is limiting in certain respects. It does not, as we have seen, admit automatically to the Register. Its value in the manufacturing field is also restricted. Rule 30 of the Poisons Rules reads: "In all establishments in which pharmaceutical preparations containing any poison are manufactured for the

purposes of the internal treatment of human ailments, the preparation must be manufactured by, or under the supervision of, a registered pharmacist or a person having one of the following qualifications in chemistry:—(a) the Fellowship of the Royal Institute of Chemistry; (b) the Associateship of the Royal Institute of Chemistry." Is sufficient publicity given to Rule 30? In its apparent leanings towards a degree course, the Society must not forget the statutory recognition of its own diploma.

To Manufacturing Only?

There appears to be a feeling that all graduates in pharmacy will go to manufacturing, while the future of pharmacy's principal function—that of maintaining a full pharmaceutical service to the public—will continue to lie in the hands of those who pass the Society's own Pharmaceutical Chemist examination. If that is to be the general direction in the foreseeable future, there is every reason for a diploma which is based on broad lines, and which makes provision for a cultural background. No narrow technological training will suffice, be it degree or diploma. And if, as the signs indicate, it is the diploma-holder who is to be the standard in the estimation of the public, let the Society see to his capabilities. The opportunity exists now, at the moment when the new conditions for the diploma are being established. Let us hope that those engaged in their formulation are alive to the aspects I have mentioned.

The Pharmaceutical Society should continue to set the standard of qualification which must meet the requirements of general pharmacy. The Society must continue to carry out its statutory duties. If, in due course, the degree route becomes the principal, or indeed the only, one on to the Register, the Society, by its understanding of the needs of pharmacy, should set the pattern which the universities will adopt.

The membership must ask questions, and continue to ask questions. That is not the easiest of tasks with the brief official reports of Council proceedings. Too often, it seems, members are presented with a *fait accompli*. There must be a little more information than has been made available recently. The subject is too important for speculation.

Discussion

PROFESSOR J. P. TODD, Glasgow, denied that, so far as the Glasgow degree was concerned, any graduate, although there might be an odd one, had not become a registered pharmacist over the past few years.

DR. D. MCCALL, Edinburgh, said that the universities in the past had been turning out a minority of people who were specialists and did not need to become professional pharmacists. That position would be different in the future if, in some ten or twenty years, the main or only route to the register was through a university degree. Industry would no longer be able to absorb those graduates, and many would then find it necessary to come on to the register and engage in general practice. There was an increasing tendency for graduates to register with the Society, and in

the future the majority would do so.

MR. A. W. PATTERSON, Edinburgh, argued that there were at present a number of degree students in the Forces, many of whom would be registering with the Society, so that the situation would possibly change quickly.

MR. R. B. BIRRELL, Glasgow, was of the opinion that the Council was making changes in educational policy without giving time for pharmaceutical bodies to discuss the situation. He said he would welcome advice as to what could be done about that. MR. MCCALL said there was provision in the by-laws for calling a special general meeting to discuss any proposal. There were also the annual and Branch Representatives' meetings. He pointed out that pharmacists who read their official journal and attended branch meetings had the opportunity of being informed on the Council's policy. MR. BIRRELL said that the decisions on education were being taken very quickly. The cumbersome methods of raising objections had a tendency to defeat any branch objection. DR. MCCALL replied that it was open to the meeting to put forward a resolution that members should be given more information on the matter before the Council proceeded. DR. McCall then gave an outline of the work of the educational policy subcommittee and the Education Committee of the Council over the past two years. Their task had been to revise the syllabus for the final examination and to make recommendations to the Council. The heads of schools of pharmacy, the Boards of Examiners and the Scottish Department believed that the subject matter might be taught within two years. The educational policy subcommittee thought it would be just possible to carry out the course in two years, but everyone realised that it would be a very heavy course leaving little time for the student to enter into other collegiate activities giving the broader background of culture to which Mr. Drummond referred. The length of the course could not, of course, be decided upon by the subcommittee but only by the Council, who would announce their decision in due course. It was likely that, if the course were increased to three years, the period of practical training would be reduced to one year. As long as the Society kept a watchful eye on the nature and quality of degrees in pharmacy as they came along, and saw that those degrees were suitable for the purpose, bearing in mind the fact that 75–80 per cent. of pharmacists were still required for retail pharmacy and with its obligations under the National Health Service Acts, there was not much to fear from the expansion of the degree courses. Mr. Drummond had suggested that the Council had been "crystal gazing," but Dr. McCall could not imagine any of the Council being guilty of that. They were trying to turn out the best type of pharmacist, and the position of retail pharmacy was never forgotten. The majority of Council members were retail pharmacists whose aim was to turn out pharmacists who would meet the requirements of all branches of pharmacy. It happened that a number of the new advanced colleges of techno-

logy had already conducted courses of pharmacy leading to the Society's qualification or to the London University external degree in pharmacy. The courses for the diplomas in the advanced technical colleges were to be of three years' duration, i.e., three years after, say, the Society's Entrance examination or the General Certificate of Education at Advanced Level. Pharmacy was going to find itself the only profession which had a two years' course. The problem which presented itself to those colleges, particularly in the Government was anxious to transfer to other colleges courses leading to the lower qualifications, could be appreciated. Pharmacy was in danger of finding itself in that category. That caused some concern to the principals and the heads of schools of pharmacy, and they naturally wished to see the length of the course increased. That new factor, over which the Society had no control, had begun to make itself felt, and had come at a time before the Council had taken its decisions on the length of the course. Whether the course for the Society's diploma was to be increased to three years was something which had to be decided soon. The lengthening of the course would mean a reduction of the burden on the student, giving him more opportunity for broader cultural training.

MR. R. B. BIRRELL said he still felt, while Dr. McCall's explanation was very good, that pharmacists should have a more lucid explanation of the educational policy of the Society.

Information Wanted

THE CHAIRMAN asked Mr. Birrell if he would like to put forward a resolution at the meeting to be submitted to the Council before it reached its conclusions on educational policy. Mr. Birrell said that, while he had been assured that the Scottish Department was keeping a watching brief, the Glasgow and Western Scottish Branch did not get much information.

DR. MCCALL said that he was right up to date now!

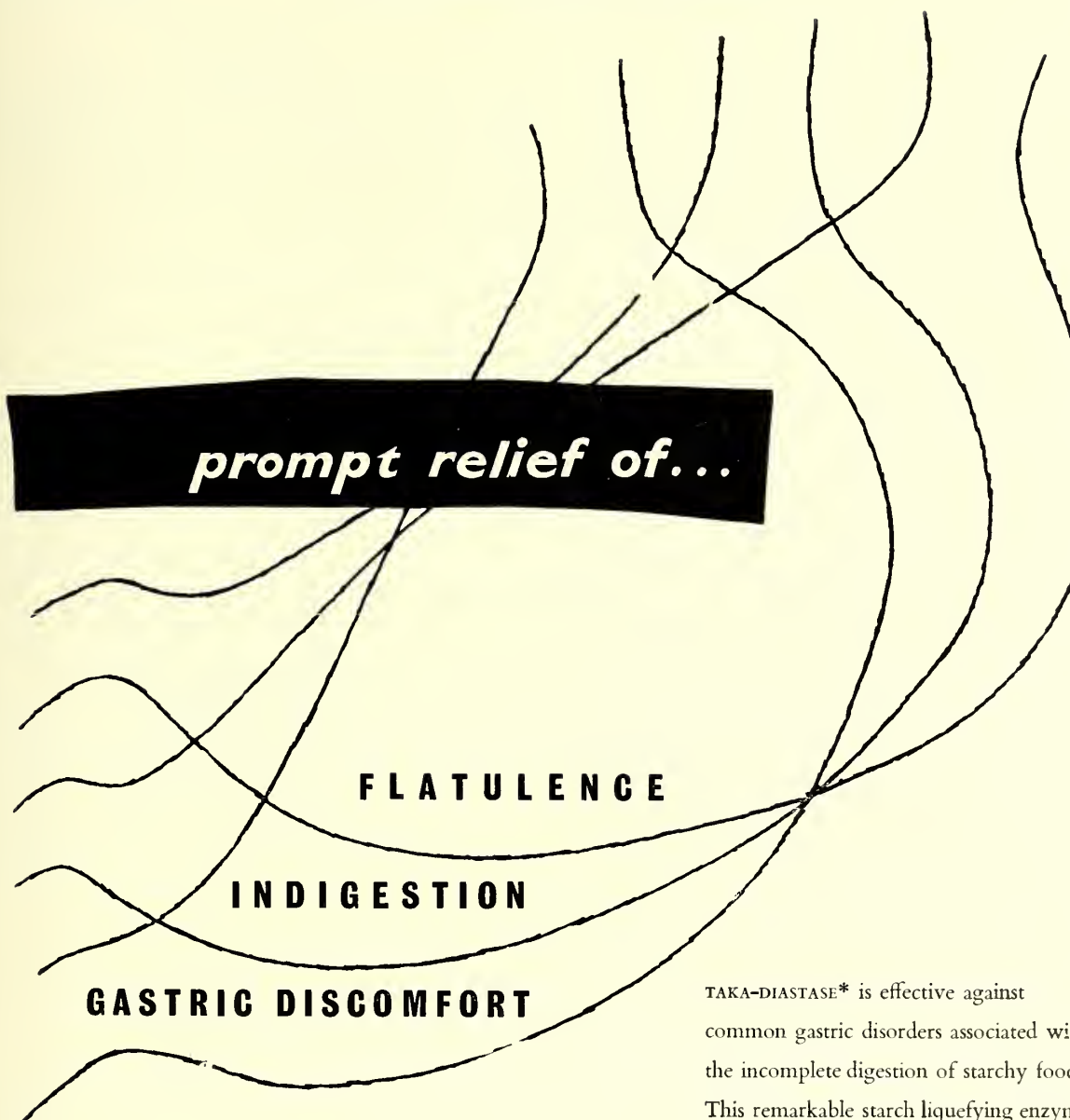
MISS E. M. JENKINS, Dundee, said that it would be interesting to know how interested his branch would be in Mr. Birrell's report of the meeting. Would he get full attendances or would he get about 5 or 10 per cent.? Would they still say "We are never told until it happens"?

MR. BIRRELL said that the attendance of the Glasgow and Western Scottish Branch representatives at the meeting that day was up to strength.

AIDS TO EFFICIENCY

Automatic Cash Records. — A new cash register by Gross Cash Registers, Ltd., Hornsey, London, N.8, provides "fool-proof" automatic records of cash transactions by a system described as "uniquely simple and ingenious."

Printed, Detailed Receipts. — The Regna cash register, manufactured by Regna Cash Register Co., 27 John Adam Street, London, W.C.2, is designed "to register your trading in line with your accounting system." A feature is the printed and detailed receipt it provides for each customer.



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TAKA-DIASTASE* is effective against common gastric disorders associated with the incomplete digestion of starchy food. This remarkable starch liquefying enzyme is capable of rendering soluble 300 times its own weight of cooked starch in ten minutes, under conditions approximating to those of the normal stomach.

Taka-Diastase Sedative Elixir (No. 198)

A combination of Taka-Diastase, bismuth and nux vomica for dyspepsia accompanied by nausea or pain. Bottles of 4, 16 and 80 fl. ozs.

Takazyma

Taka-Diastase, with insoluble carbonates. Gives 3-fold relief of (1) hyperacidity, (2) undigested starch, (3) irritation of gastric mucosa. Powder in jars of 2 ozs. and tins of 1 lb. Lozenges in bottles of 30 and 100.



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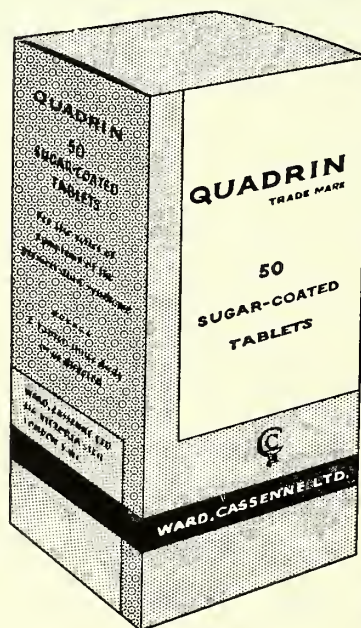
present to the
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0.3 g.
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The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Addiction Well under Control

NEWSPAPER stories about the traffic in Dangerous Drugs are apt to leave the impression that its evils are increasing in the United Kingdom. In the recently issued 1956 report by the United Kingdom Government to the United Nations (see p. 93), that idea is refuted.

The number of known addicts—and the Government is satisfied that its figures for the U.K. are very near the true mark — remains much the same as ever, and with no significant change in the character or extent of the illicit traffic in Dangerous Drugs. Increases in the number of seizures of opium, and in the quantity involved, are considered to have no significance.

Control over the pharmaceutical distribution of Dangerous Drugs is, of course, applied with a tightness that is almost fanatical. It is noteworthy that, though about one-third of the known addicts in the U.K. belong to the professions who handle Dangerous Drugs, not one, according to the report, is a pharmacist.

Higher Exports of Medicines

UNITED Kingdom exports of medicines during June were valued at just over £3 millions, and brought the total for the first half of the year to £19.8 millions (£2 millions more than in the same period of 1956). So far as we can see from the statistics available, that improved total was chiefly the result of the higher exports of antibiotics (except penicillin), alkaloids, aspirin, and proprietary medicines.

The largest single market for medicines in June was again Australia, with purchases valued at £314,978. Although the purchases of India, which was next at £210,240, are not likely to be so good in the second half of the year, owing to recently imposed import restrictions, the value to date (£1.58 millions) compares favourably with the £1.52 millions' worth bought during the corresponding period of 1956. Trading with Egypt is still at a standstill. In January—June 1956, exports of prepared medicines to that country were valued at £½ million, but so far this year they have been negligible. Fortunately nearly all European countries have been bigger buyers this year, Italy being the main exception. Shipments to Canada and the United States were at a lower level than in January—June 1956, but some improvement is noticed in exports to the Argentine.

On the import side, June imports of prepared medicines were at a record low level, and were only half the value of February imports. In the half-year imports of raw materials for medicinal preparations show a substantial rise over the same period in 1956. Men-

thol, for instance, was valued at £203,601, against £77,732, and ipecacuanha at £168,105, against £61,060.

JUNE EXPORTS				VALUE
Drugs, medicines, medicinal preparations				£
(total)	...	...	...	3,075,870
Vitamins	...	...	...	221,061
Penicillin salts	...	...	...	86,877
Penicillin injections	...	...	...	68,321
Penicillin tablets, ointments, etc.	...	...	...	43,628
Antibiotics other than penicillin	...	...	...	515,309
Quinine	...	...	...	20,262
Alkaloids, excluding quinine	...	...	...	90,277
Aspirin	...	...	...	81,657
Antihistamines	...	...	...	50,704
Antipaludics	...	...	...	96,168
Barbiturates	...	...	...	50,060
Liver extracts	...	...	...	18,665
Ointments and liniments	...	...	...	83,575
Insulin	...	...	...	52,167
Sulphonamides	...	...	...	108,168
Proprietary medicines	...	...	...	770,807
Other medicines not classified	...	...	...	695,932
Glycerin	...	...	...	130,645
Acetone	...	...	...	6,137
Citric acid	...	...	...	37,154
Salicylates	...	...	...	28,571
Perfumery and toilet preparations	...	...	...
Lipstick, face powder, etc.	...	...	...	278,570
Dentifrices	...	...	...	256,053
Toilet soaps	...	...	...	208,363
Synthetic detergents	...	...	...	708,875
JUNE IMPORTS				£
Vitamins	...	...	...	77,505
Antibiotics	...	...	...	30,294
Alkaloids	...	...	...	69,542
Proprietary medicines	...	...	...	53,070
Unclassified medicines	...	...	...	198,482
Borax	...	...	...	95,596
Iodine	...	...	...	24,293
Menthol	...	...	...	17,680
Essential oils	...	...	...
Bergamot	...	...	...	20,366
Citronella	...	...	...	13,566
Clove	...	...	...	3,111
Geranium	...	...	...	25,102
Lavender	...	...	...	1,922
Lemon	...	...	...	41,852
Orange	...	...	...	23,380
Peppermint	...	...	...	46,620
Unclassified	...	...	...	155,298

"Never Better"

WHILE our correspondence columns continue to raise doubts whether educational advance in pharmacy may not be bought at too high a price, a much more buoyant and confident outlook seems to exist at present in the United States, if an editorial in the *American Journal of Pharmacy* is any guide. According to its writer "the opportunities for the graduates of our seventy-six colleges of pharmacy in the United States were never better. Few, if any, of those students graduating have failed to receive several excellent offers of employment, and many fields of pharmaceutical endeavour are open to those who seek some type of employment other than in retail pharmacy." No doubt graduates and diplomates on this side of the Atlantic can find a post without difficulty, but is it equally remunerative or congenial? "Only graduate engineers," says Mr. Tice, "are paid more in their starting salary than is the young graduate in pharmacy. Statistics will show, however, that on the average the pharmacist after ten years . . . earns more than the average engineer working for industry." Where, in Britain, can any voice be heard speaking so optimistically of the prospects?

HOSPITAL PHARMACY FORUM

ALL CHANGE!

THEY say that one of the difficulties encountered in trying to improve the lot of aboriginals in Australia is their inability to stay put. After a few months of employment the urge comes upon them to take a "walk about," and that urge may last for as much as a year. The wanderlust, however, is not confined to aboriginals: it affects many who count themselves among the more highly developed races. At this season of the year the migratory instinct rises dominant in us all, and especially brings about great turmoil and change in the pharmacy departments.

The more fortunate ones (in the financial sense) take themselves off in search of continental sunshine, while those whose blessings are counted in terms of matrimonial contentment and paternal responsibility seek out some inexpensive caravan or bungalow. There they divest their troubled minds of telephone calls, importunate sisters, counsel-seeking physicians, time-consuming representatives, and nagging finance committees.

The holiday period is not, however, the only disrupting factor in the pharmacy department. This seems to be the period when many junior pharmacists decide to make a change, and the annual game of musical chairs begins again. There is no sign, as yet, of the staff shortage being made good: consequently it is easy for junior staff to move on to supposedly more congenial places as and when they will. The return from holiday is thus often plagued by the anxiety of staff recruitment and the prospect of a tough time catching up with the arrears of paper work whilst manning the dispensary at the same time.

Help By Students

Some of us have come to appreciate the services of students during the summer vacation, and feel that therein lies a partial solution to the summer staffing problem. Obviously such students have a limited value. They are only at the beginning of their studies and are probably meeting pharmaceutical practice for the first time. They are, however, keen and intelligent. Given suitable conditions and fair oversight they can do much to help in the department. Moreover there is an interesting provision in the new educational arrangements that enables a student to count a period of not less than eight consecutive weeks towards his post-graduate apprenticeship, provided the whole apprenticeship is served in the same department. In that provision resides a direct encouragement to the student to become associated with a particular hospital, to which he will return to complete his practical training on leaving the school of pharmacy. The advantage to the hospital pharmacist is that, on his return, the student already knows the general layout and style of work in which he is to continue his training.

Apprenticeship in hospital has much to offer, both to the student and to the pharmacist. The pharmacist who later will take up some other branch of the work will not have wasted his time by passing that period in hospital. It would not be a bad thing if retail pharmacists were conditioned to think of their public as patients rather than as customers. The close contact that exists between pharmacist and doctor and nurse provides opportunities for entering into the spirit of the "team," and of feeling a sense of responsibility for the success of the treatment. All too often that sense of combined effort is lost in general practice because the principal of the business has not had such opportunities. Again, practical training in hospital brings the student to a close knowledge of the actions and uses of a wide range of drugs and stimulates his interest. It would be to the advantage of the profession generally if a greater number were to have such an opportunity.

If the plan were organised adequately there is also a possibility that much of the routine work in hospitals could

be done by students under the supervision of the reduced number of pharmacists now there. Such is the situation in some continental countries, and there is no indication that it works to the detriment of the pharmacist. A change of that kind, however, would put a new kind of responsibility on the pharmacist, and make demands on him as a teacher and guide. To some, that sort of function comes easily by reason of their temperament and interests. Others, however, find it an easier matter to get on with the job than to explain and guide the trainee. It would be necessary to ensure that the pharmacist responsible for the oversight of students were of the experience and maturity to train them well, and to safeguard the well-being of the patients.

So far, no attempt has been made to ascertain how many hospitals could provide places for student-pharmacists. It is quite possible that a majority of students could be placed in the hospitals if the matter were arranged on a national basis. That would require collaboration between the Ministry of Health, the Pharmaceutical Society and the Guild of Public Pharmacists. It would also require replanning of the pharmaceutical work in some hospitals, for working with a student staff would, except for the nucleus of permanent pharmacists, mean a complete change of staff each summer.

It would be interesting to see what effect such an experiment would have on the general practice of pharmacy and on the outlook of the profession as a whole.

Onward from Galen

A CURRENT CAUSERIE

A GREAT number of today's textbooks have a certain mass-produced quality about them. They might all have been written by the same author, with the same style, perfectly correct facts, and the same soporific effect on the reader. Indeed, they might almost have been written by the same machine, lacking the flashes of wit and opinion that make their older counterparts more enjoyable. I was looking recently at Culpeper's "The English Physician Enlarged," and in one article a great deal emerges. True it is quite a long article, but it abounds in comments on social and religious topics, and—what is more important—the personality of its author comes over to the reader. It is the personality factor that is missing from many of the modern run-of-the-mill text books. Culpeper describes "sea wormwood" (pseudonym "santonican"). The seed, he says, is given to children and old people as an anthelmintic; he emphasises that it is better to use the weakest possible variety of wormwood for those patients. In 1650 many more properties were attributed to the herb than modern research has revealed. It was excellent, or so it was then thought, for the treatment of jaundice, swollen stomach, and the biting of rats, mice, wasps, hornets and scorpions; and it was even good for a surfeit of drink. Culpeper records a visit to the Tower of London, where he saw the Wardrobe. His first thoughts were not of the splendour of the various clothes, but that they'd soon be moth-eaten unless his pet herb wormwood was scattered amongst them! Culpeper's strong Protestant views are brought in. "Roman wormwood; and why *Roman*, seeing it grows familiarly in England?" he inquires rhetorically. "It may be it was so called because 'tis good for a stinking breath, which the Romans cannot be very free from." He writes in another part of the book: "English Herbs should be fittest for English bodies. This hath been proved by the Experience of Divers Physicians." One of the main events in his life was his quarrel with the College of Physicians, which arose because of his translation of the *Pharmacopoeia Londinensis* into English, an act that outraged the College so much that they

refused him a licence to practise medicine. Not a man to take punishment quietly, he attacks them violently through-out his books. They are ignorant, careless, full of pride, and appropriators of other men's knowledge. Their *Dispensatory* comes in for a barrage of criticism.

★

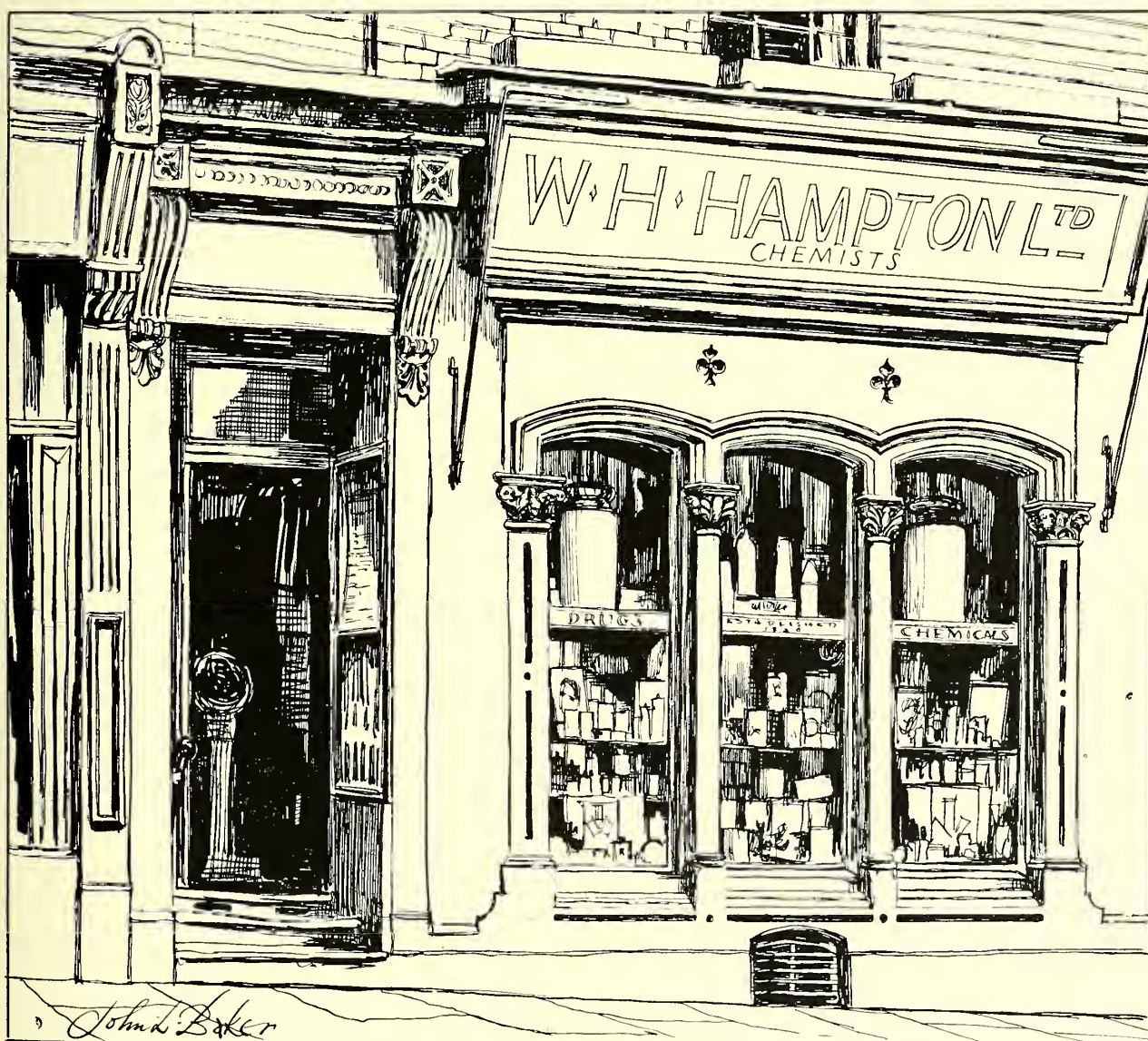
A RUMANIAN pharmacist who became a great medico-legal authority was born 100 years ago on July 31. Mina Minovici was born at Braila in 1857. In his youth he studied pharmacy at Bucharest and graduated Master of Pharmacy in 1884. Four years later he obtained the M.D., Paris, degree. Minovici was the founder of the Bucharest medico-legal institute, and for many years professor of forensic medicine in the University. He wrote a number of scholarly books, of which the best-known are a two-volume treatise on legal

medicine (1928-30) and "*Etude médico-légale sur les Alca-loïdes cadavériques*" (1888). He died on April 25, 1933.

★

WOMEN in the professions had to pioneer their way against opposition, but the relatively late entry of women into pharmacy did not mean that there were previously none who were associated with the business of a chemist and druggist. Newcastle-on-Tyne had a woman druggist as long ago as 1827. The name of Mrs. Anderson appears in the directory of the town and county of Newcastle-on-Tyne and of Gateshead in William Parson and William White's two-volume "*History, Directory and Gazetteer of the Counties of Durham and Northumberland*," published by W. White & Co. at Bell's Court, Pilgrim Street, Newcastle. Mrs. Anderson's address was there given as Wreckington, Gateshead Fell.

PHARMACIES OF BRITAIN—60



A PHARMACY AT GLOUCESTER

Opened by a Mr. Tucker in 1826, the pharmacy of W. H. Hampton, Ltd., 47 Northgate, Gloucester, has its original shopfront, and indeed retains its original character throughout, except that a new dispensary was installed in 1930. Both directors (Mr. T. O. Martin, F.P.S., and Mrs. B. M. Martin) are pharmacists, and the dispensing department has a permanent staff of five.

APPROACH TO THE DOCTOR

Pros and cons of various forms of manufacturers' advertising

THE pharmaceutical manufacturers in this country vary greatly in the value they attach to the three main ways of reaching the medical profession with their advertising. One pins his faith almost entirely on representatives, another predominantly on postal methods and a third believes above all in the medical and trade Press. The wise realise that each is complementary to the others and each fulfils a particular function, though the proportion each demands from the total sum allocated for medical promotion may not be uniform.

In a recent issue of our American contemporary *Drug and Cosmetic Industry* is published a survey carried out by the Schering Corporation drawing attention to considerable changes in the proportions expended on each of the three methods during the past five or six years. The survey reveals a tendency to spend rather less than hitherto on medical representation and more on literature and advertising in the medical and trade Press. The article gives an estimate of the amount of doctors' time per week devoted to considering the three forms of medical propaganda. Only one doctor in ten in the United States never sees a representative; one in four never reads advertisements in the Press; and two out of five do not read medical mailings. It is also claimed that the average physician devotes $5\frac{1}{2}$ hours a week to one or other of those forms of approach, though less than half of the time is given to what may be described as strictly commercial material.

While conditions in America may not be strictly comparable with those in Britain, such statistics may provide a pointer to the principles—if not the details—to be followed in the conduct of medical advertising campaigns in this country.

Increasing Flow of Medical Literature

In recent correspondence in the medical journals some doctors have deplored the steadily increasing flow of medical literature they receive through the post, perhaps overlooking the point that most manufacturers would be quite ready to omit any doctor from their mailing lists on a request from him to do so. The fact remains that well-planned mailings addressed to doctors continue to bring in requests for samples and literature of the order of 10–15 per cent. of the total number circularised. It would be a mistake, therefore, for the manufacturer to allow the amount appropriated to direct mail advertising to be unduly influenced by objections on the part of a minority of medical men, or even because only a proportion of doctors display an active interest in the products that are the subject of direct mailings.

Another complaint is that expenditure on printed propaganda is an extravagance that results in higher prices for proprietary products than those of standard B.P. medicaments. Criticism of that sort ignores the need for the medical profession to be kept up-to-date on progress in the drug field. The past ten years have seen such great strides in the provision of new and effective pharmaceutical remedies that the cost of making them known to doctors seems a small price to pay for the advantages of having an informed medical profession.

No product is successfully marketed without taking into account the cost of its distribution as well as that of making it known to its prospective users. The cost of distribution to the trade alone often amounts to 30–40 per cent. of the retail price, and the cost of selling and advertising accounts for perhaps another 30 per cent.—but the latter expenditure advances sales to a level at which the unit cost, including the costs of manufacture and administration, is often brought down to a figure that more than counterbalances the marketing costs. The much larger output reduces the cost of manufacture.

Those facts are known to manufacturers in every field, but not necessarily to the medical profession, or even to the National Health Service authorities, who may not appreciate that money spent on advertising is an essential part of the cost of any manufacturing operation and that, by maintaining and increasing sales and therefore output and efficiency, advertising helps to reduce the unit cost of the product. Advertising is vital, too, to the export trade in pharmaceuticals and thus has a useful part to play in helping the national economy.

On the amounts spent on the three methods of approach already mentioned, no available statistics can be fairly applied to this country. The representatives of some manufacturers have access to a larger proportion of doctors than others, and that predisposes them to a higher proportional expenditure on that type of promotion. Some products, however, are well understood by doctors and so do not require elaborate explanation of their value and use.

The Trade Press

Advertising in medical and trade journals, besides giving information in summarised form, also acts as a background and, given continuity, assists in building the reputation of a firm and identifying the "personality" of the house concerned. It helps to create goodwill, to smooth the passage of the visits of representatives, and to gain a more favourable reception for the advertiser's printed literature. To gain the doctor's trust the advertiser must respect his professional status and recognise that he is bound to react to new drugs and techniques with professional caution and conservatism. The successful pharmaceutical manufacturer adopts many of the rules and restraints of the medical profession. He employs and takes the advice of doctors and is a keen follower of clinical trials. No doctor likes to be taught his business, and all are suspicious of the superlative or of any claims that are not substantiated by clinical evidence.

The advertiser has the problem of addressing himself to a cautious, overworked professional man concerned to ease pain and save life. It is for the doctor to be liberal in his attitude and to recognise that medical advertising is not a time-consuming extravagance but an essential function of an industry which, by original research and enterprise, is contributing to medical advance, and whose advertising, though commercial in purpose, keeps the doctor abreast of new drugs and treatments. Seen in that light, each various method of approach has an essential rôle to play, differing according to the product, according to the selling techniques favoured by the manufacturer, and above all, according to the preference of the doctor. After all, he is the customer, and it is his willingness to receive and read advertising matter, or to give time to the representative, which determines the use which the manufacturer makes of the three methods of approach.

NEW BOOK

The Chemical Formulary, Volume X

EDITOR-IN-CHIEF, H. BENNETT, *Chapman & Hall, Ltd.*,
37 Essex Street, London, W.C.2. $8\frac{1}{2} \times 5\frac{1}{2}$ in. Pp. 392. 63s.

AFTER an introductory chapter common to all the volumes, and included for the benefit of purchasers of a single volume only, the present book goes on to provide formulas, not given in Volumes 1 to 9, for adhesives, cosmetics and drugs, emulsions and other colloids, farm and garden specialities, food products, insecticides, paints and lacquers, photographic chemicals, soaps and detergents, etc., in twenty-two chapters. In an appendix are conversion tables and a list of (American) suppliers of chemicals. THE CHEMIST AND DRUGGIST is among sources to which an acknowledgment is given.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

THE president (Mr. C. A. Quinn) was in the chair at a meeting of the Council of the Pharmaceutical Society of Northern Ireland in Belfast on July 18. Members present were Mr. Walter Tate (vice-president), Messrs. W. H. Boyd, J.P., H. G. Campbell, W. P. Ewart, J.P., J. Kerr, H. W. Gamble, O.B.E., A. Templeton, J.P., F. R. Moore, J.P., W. S. Hall, R. M. Watson, W. J. Thornton, G. E. McIlhagger and J. McGregor. The secretary (Mr. William Gorman) was in attendance. Apologies for absence were received from Professor Mayrs, Dr. R. G. R. Bacon, Messrs. J. Caldwell, S. E. Campbell, C. Moss, H. F. Moore and R. Gibson, O.B.E. Professor Mayrs forwarded a message thanking the Council for their message of sympathy and good wishes for a speedy recovery.

The minutes of the June meeting were approved on the motion of Mr. MCGREGOR, seconded by Mr. TEMPLETON. A letter was received from the Institute of Chiropractors drawing the attention of the Council to the fact that a number of members of the Society were practising chiropody and asking the Council if there was any action they could take in the matter. On the suggestion of Mr. W. H. BOYD, the Council agreed to reply stating that the number of chemists so practising was extremely small and that no action could be taken.

Course in Management

MR. GORMAN reported that some time ago Mr. C. Young, of the Belfast College of Technology, had been approached on the question of giving students who had passed their Final Part I examination — after the full-time course — some course of evening study. He had since been informed that it would be possible for students who had finished their two-years' apprenticeship to take a qualification of the Institute of Management. It was hoped that they would be able to encourage the students to take up the course during their apprenticeship. Some of the students, Mr. Gorman said, appeared to be anxious to enter for the course and take the Institute of Management Diploma. Mr. W. S. HALL (chairman of the Education Committee) said that the course would be extremely beneficial to students. The idea of a course other than pharmaceuticals had been discussed by the Education Committee and he thought the course now planned would be of great benefit to those who would be entering retail pharmacy. Mr. BOYD thought the matter might be referred to an early meeting of the Education Committee to consider the details. Mr. GAMBLE asked if it would be possible when more details were known of the course for Mr. Gorman could get in touch with the provincial teaching centres telling them that a course was being introduced in Belfast and asking if it would be possible to arrange similar courses in the country areas. The Council agreed to refer the matter to the Education Committee and also that an approach should be made to the provincial schools, once details of the course were known.

In connection with the publication of a calendar the secretary reported on quotations which had been received for the printing of the book. The prices were based on the assumption that many of the pages to be printed were similar to those now being printed in Great Britain for their calendar. Mr. BOYD said that when the calendar was printed he thought that a nominal charge should be made for copies on application. The cost would be considerable to the Society and he thought they might well be able to recover 5s. per copy. Mr. H. G. CAMPBELL expressed similar views and suggested that there should be a greater charge to any outsider requiring a copy. On the motion of Mr. KERR, seconded by Mr. BOYD, it was decided to proceed on the figures submitted. It was pointed out that it would probably

be some time before some data for the calendar would come to hand, as the Dangerous Drugs Regulations were still awaited. MR. TEMPLETON suggested that a number of blank pages should be left in the calendar to enable pharmacists to paste in any new legislation or regulations that would be introduced.

The report of the Finance Committee was adopted on the motion of Mr. G. E. MCILHAGGER (treasurer), seconded by Mr. BOYD. The Council also adopted a recommendation of the Committee that a further £200 should be written off the University Street property. It was stated that at the moment the property was shown in the balance sheet at £2,000.

Examiners' Report

Presenting the report from the board of examiners on the June examinations, MR. GORMAN said that, in the Final Part I examination, ninety-four candidates entered, two were absent, twenty-five passed, forty-seven failed, eight were referred in biology, nine in chemistry, three in physics. The percentage pass was 27. Four of the candidates were attempting the examination for the third time and two of them failed to satisfy the examiners. The two who failed the whole examination were recommended to be given a fourth attempt provided that they completed a one-year full-time course of instruction and did not enter again earlier than June 1958. The other two candidates who sat for the third time were referred in one subject and in each case the Board recommended that they should be given a fourth and final attempt in the one subject only: chemistry. It was also recommended that twenty-seven students should attend revision courses in all subjects; two to be required to do physics and chemistry revision courses; three to attend revision courses in biology and chemistry, and two physics only. That meant that thirty-eight candidates had been recommended by the Board to attend a course of some kind or another before being permitted to enter again.

In the Final Part II examination, ninety-three candidates entered, one was absent, twenty-eight passed, fifty-one failed, eight were referred in pharmaceuticals, one in chemistry, three in pharmacognosy and one in forensic pharmacy. The Board mentioned that at the previous examination a recommendation had been made that six students should be told that unless they showed considerable improvement they would be required to attend a one-year full-time course. The Board, however, was pleased that in four of the six cases there was a considerable improvement. The two other students who had been warned had gone back in their marks and the Board recommended that those two students should be required to attend a one-year full-time course before presenting themselves again for examination. They also recommended that two other students should be warned that unless they showed obvious signs of improvement they might be required to attend a one-year full-time course.

That was the first examination where students who registered under the new syllabus presented themselves for examination. Twenty-eight candidates came in September 1956 for the full-time course. Five did not sit the examination. Of the twenty-three who sat, five passed, two were referred in biology, two in chemistry, two in physics and twelve failed. The report of the board of examiners was adopted on the motion of Mr. EWART, seconded by Mr. HALL. On the motion of Mr. TATE, seconded by Mr. F. MOORE, it was agreed to affix the seal of the Society to the certificates of qualification. The Council agreed to submit the draft by-laws to the Society's solicitor for his observations before they were discussed in detail by the Council.

IRISH DRUG ASSOCIATION

Annual meeting in Dublin

MANY important matters affecting the trading side of Irish pharmacy were dealt with by Mr. F. J. Robinson (president) at the annual meeting of the Irish Drug Association held in Dublin recently.

Mr. ROBINSON paid tribute to the late Mr. T. C. Scott and the late Mr. P. F. McGrath. Mr. Scott had been president of the Association for three years during the mid-thirties' drive to establish the approved lists and to tackle the price cutting that existed. The membership in those days was very small and the group of chemists who met weekly under Mr. Scott's presidency did valuable work which only came to fruition in comparatively recent years. Mr. Scott would also be remembered for his term of ten years' efficient service as treasurer. The death of Mr. Frank McGrath, said Mr. Robinson, had deprived the Association and the Pharmaceutical Society of Ireland of one of the most outstanding figures in the pharmaceutical profession.

Fair Trade Commission

Referring to the awaited report of the Fair Trade Commission [since published, see *C. & D.*, July 13, p. 31], Mr. Robinson stated that, when it had been considered, a special meeting of all the members would be summoned, and an explanation of the repercussions of the report put before them. He congratulated members on their patience and loyalty in regard to price maintenance. In the few cases where there had been price cutting supplies were stopped by manufacturers. They awaited the Fair Trade Commission's report in the hope that resale price maintenance would be permitted. Retail prices were generally higher during 1956-57, mainly owing to external forces such as levies and import duties which were imposed and increased during the year. The committee did seek to have the levies on medicines and essential oils removed or reduced. In December the suggested prices for prescriptions were increased and those charges were now general throughout the country. Early in the year the committee opposed the acceptance of increased wholesale prices for packed lines such as liquid paraffin. Members were advised to pack their own brands and as a result of that directive the wholesalers reverted to their former prices. Regrettably, the wholesalers had again slightly increased many of the less popular packed lines.

Prescriptions for pricing under the Mother and Child Regulations continued to arrive in the offices at the increasing average of over 100 a day. That meant over 100 prescriptions fewer daily in the public dispensaries and, if that figure could be increased, it would be most helpful to chemists. The delays in payments of accounts by county councils to chemists still existed despite the fact that the committee had approached the Department of Health several times during the year with the object of trying to remedy the delay. The possibility of having the terms and regulations revised was also discussed.

The failure of certain county managers to allow the supply of the maternity pack at 14s. by retail chemists was also dealt with. An offer made to the Dublin Corporation was turned down on the grounds that 14s. was too dear. The Association believed, however, that a lower figure would not be profitable. The Dublin Corporation and other corporations were approached during the year in connection with the sale of medicines and baby foods in corporation clinics. The Dublin Corporation was approached about the water rate charges to retail chemists.

The committee dealt with many cases of chemists' names appearing in lists offering discounts and also with the question of other groups or bodies endeavouring to obtain discounts for their members. The question of clubs, trading-cheque firms and the development and extension of hire purchase to lines sold by chemists also received the committee's attention, as did the public inquiries by the prices advisory body into the prices of bottles and sugar charged by manufacturers.

Relations with the employees' unions continued to be most cordial. The Wholesale Drug Federation of Ireland also continued to co-operate. The committee, however, had conflicted with the Federation on the question of refusing to accept goods returned for credit by retail pharmacists, the matter being eventually amicably adjusted.

Opening and closing hours were modified on behalf of members in several towns and, in conjunction with the Pharmaceutical Society of Ireland, new hours, which the Society's representative (Mr. O'Briain) had agreed, were put into operation in many centres. Local Associations continued to do valuable work and it was proposed to hold an annual conference of delegates from each local Association with the members of the committee.

A Dublin Branch?

At the annual meeting in 1956 it had been suggested that a Dublin branch of the Association should be formed and when the Fair Trade Commission inquiry report was published, it was intended to see whether that proposal could be implemented. The importance of the Association in the eyes of other bodies was illustrated by the fact that the president and secretary were invited to a conference of the Association of British Pharmaceutical Industry as representatives of the Republic of Ireland. The Association had joined in the Federation of Trade Associations, established in Eire in 1956, and Mr. B. Smith (the Association's secretary) had been honoured by being asked to act as secretary. Already the Federation had had an interview with the Minister for Industry and Commerce, who had been made aware of the various difficulties with which traders had to contend.

Thanking officials and committee members for their loyal support, Mr. Robinson made special reference to Mr. J. Gleeson (vice-president) who had deputised on occasions most ably and to the secretary (Mr. Brendan Smith).

"I would like to state," concluded Mr. Robinson, "that the Association deserves the best support of chemists for all that has been achieved in the past, and particularly for all that was accomplished in the year under review."

Mr. P. McNAMARA said he would like to know something about the objects of the Federation of Trade Associations.

THE SECRETARY said that one of the principal objects of the Federation was to speak for those engaged in commerce as distinct from those engaged in industry and manufacturing. One of the main objects of the Federation was to prevent price cutting.

Treasurer's Report

Dealing with the Association's finances, Mr. D. J. MURPHY (treasurer) said that while there was a deficit in 1955 he was glad to report that in 1956 there was a surplus of £163. Membership at 1,126 was practically unchanged. Price changes had come at an average of fifty per week. Over 20,000 prescriptions had been priced, and over fifty committee meetings had been held in addition to other meetings with the Pharmaceutical Society, manufacturers and wholesalers. The total income for the year was £6,021 and expenditure came to £5,858.

Mr. F. J. Robinson was appointed a trustee of the Association to fill the vacancy caused by the death of Mr. McGrath. The following members of the Committee were re-elected: Messrs. L. G. Smith, D. J. O'Hanlon, F. J. Robinson, M. Costello, D. J. Bridgeman and D. P. McHugh.

A motion by Mr. R. K. DEEVEY, Donnybrook, "That Whit Monday and August Bank Holiday should be treated as a complete holiday, and that all pharmacies should close on those days," was withdrawn on the president's suggestion.

Mr. Robinson pointed out that many members of the Association found it profitable to open on bank holidays. If Mr. Deevy withdrew his proposal it could be considered at another time.

During general discussion Mr. J. BURKE mentioned that a customer recently called on him for a particular preparation and said the doctor had said it would cost 8s. 6d. That was unethical of the doctor. Could something be done to stop that practice?

Mr. MILLER said the medical and dental associations had invited the Society to join them in forming a professional committee. That was the place at which to bring up a matter of that kind. It was ridiculous to have the doctor telling the patient what he should pay the pharmacist.

The question of pharmacists who had been supplying a local factory with medicinal supplies, and then found that a wholesale firm came in and took the business from them, was raised by a lady member.

Another lady pharmacist present said the wholesaler was even supplying convents and making up prescriptions for them. Mr. O'ROURKE said that

the wholesale house was acting illegally in making up a prescription. Mr. McNAMARA asked if it was in order for a wholesale house to supply nurses at wholesale terms for goods resold to patients.

Mr. ROBINSON said obviously that would be wrong, and if the Association was furnished with specific details something could be done about it. Mr.

T. GLEESON thought chemists were themselves to blame if they did not band themselves together to take action against such practices. Mr. O'ROURKE said he was afraid some wholesalers were not observing the ethical standards of the past. Small nursing homes not entitled to wholesale terms were getting them. Mr. O'HIGGINS said he would like to see that meeting take action to put an

end to the practice of some wholesalers of distributing their goods indiscriminately.

At the first committee meeting held following the annual meeting Mr. Robinson was unanimously re-elected *President* for a second year of office and Mr. Gleeson was re-elected *Vice-president*, with Mr. Murphy as *Treasurer*.

FOURTH BRITISH PLASTICS EXHIBITION

Products in great number and diversity

MORE than 250 firms from all branches of the plastics industry were represented at the Fourth British Plastics Exhibition which was held at Olympia, London, July 10-20. For the first time the exhibition contained international exhibits, and overseas visitors from more than sixty countries attended.

The exhibition covered a vast field, embracing as it did the machinery and materials for the manufacture of plastics, from huge injection moulding machines to small samples of plasticisers and colours; the plastic materials themselves, from the sheerest transparent film to rigid reinforced plastics for industrial plant; and consumer products made from plastics, from a tooth-paste cap to an ambulance body.

Despite the number and diversity of the exhibits, the exhibition was well arranged with the stands easy to find by the help of the map supplied in the catalogue, on which both stand numbers and names of exhibitors were clearly marked—an unusual and helpful feature among exhibition catalogues.

The following is a survey of exhibits of interest to the pharmaceutical and chemical industries:—

Containers, Packaging and Display

A range of plastic packaging materials, including Celastron high-impact polystyrene sheeting, was shown by BRITISH CELANESE, LTD. (PLASTICS DIVISION), London, W.1.

THE CELLGRAVE CO., LTD., London, S.E.15, exhibited plastic cosmetic containers and display material made to customers' requirements.

Extruded cellulose acetate containers in a variety of sizes and shapes were featured by THOMAS DE LA RUE & CO., LTD., London, W.1.

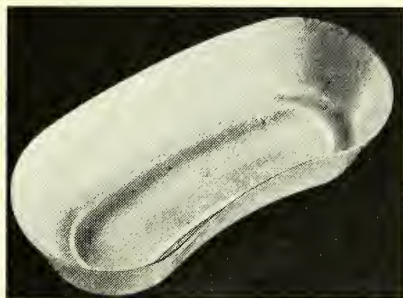
Polythene bottles, supplied from a standard range or to customers' requirements, were shown by EKCO PLASTICS, LTD., Southend. The company also featured a polythene container for ampoules or tablet vials, specially made for a pharmaceutical manufacturer.

Containers for the chemical industry shown by HALEX (A DIVISION OF THE BRITISH XYLONITE CO., LTD.), London, E.4, included an armoured polythene container for the land, sea, or air transport of chemicals. It consists of a thin-walled polythene container inside a metal drum of 5 or 10 gall. capacity. The carboy has a polythene screw-cap and a smaller additional outlet for decanting small quantities. Also exhibited was the Squezy container for detergents, made for Domestos, Ltd., by the company. The container has two metal ends spun on to a polythene body, with

a polythene closure which can be adapted to drop, spray, or puff the contents.

A new plastic moulding made by INSULATORS, LTD., London, N.18, is a spherical valve for the recently introduced roller-type deodorant container.

A range of blow-moulded polythene containers, which can be supplied from stock or made to customers' requirements, was shown by KINGSTON



Sterilisable kidney dish made of Akulon nylon (Algemene Kunstzijde Unie N.V. (Plastics Department), Arnhem, Holland).

MOULDINGS, LTD., Kingston-on-Thames, Surrey.

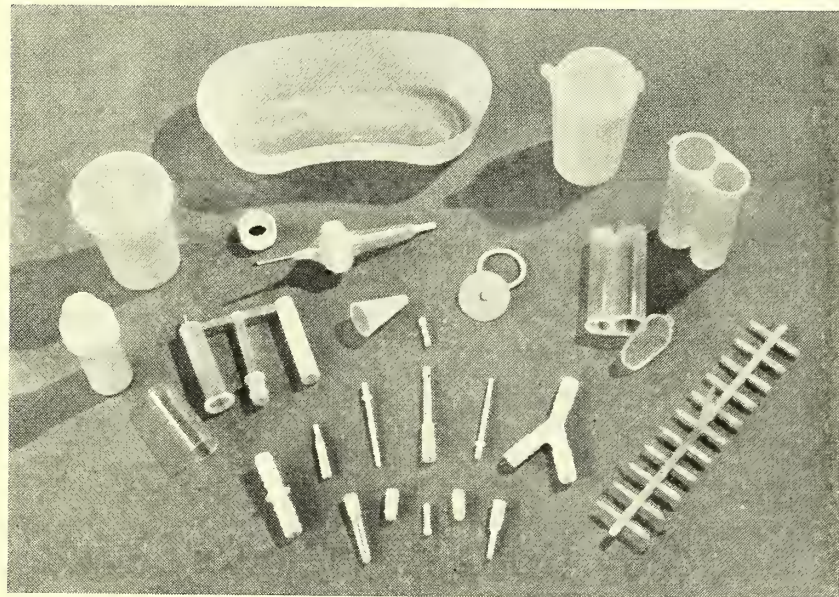
A range of polythene containers shown by LACRINOID PRODUCTS, LTD., Gidea Park, Essex, extended from 2 or 3 c.c. to 13 gall., the 13-gall. sizes having carrying handles and fibre-board outers. The company is now manufac-

turing a polythene aspirator tap for the 13-gall. size. A 3-litre container graduated in $\frac{1}{2}$ -litres was also on show, and the company also manufactures containers made of nylon or low-pressure polythene, which are sterilisable and resistant to a wide range of chemicals.

Decorative plastic containers shown by LUSTROID, LTD., London, included new designs in polystyrene containers for electric and safety razors; and display outers, including the new Spontex sponge display "shell"; all made to customers' specifications.

Meculon metallised polyester film, and Miralon metallised cellulose acetate film were shown by M. & B. PLASTICS, LTD., London, W.1. Both films may be used for display material. An attractive Christmas tree on the stand was made entirely of Meculon, that material being tougher than Miralon, which was shown used as a backing for a manicure case. Miralon may also be used for decorative labels for cosmetics, etc.

METAL BOX CO., LTD., London, W.1. showed the Poly-tainer and Nylo-tainer moulded polythene or nylon bottles (formerly made by E. Shipton & Co., Ltd., and marketed for that company by Industrial Appliances, Ltd.). The company of E. Shipton & Co., Ltd., was recently taken over by Metal Box Co., Ltd., who can now supply the bottles, from stock or made to specification, in sizes up to 1 gall. The company were showing for the



Range of sterilisable medical equipment made of Akulon nylon (Algemene Kunstzijde Unie N.V. (Plastics Department), Arnhem, Holland).

first time printed polythene-coated cellulose film for packaging. The printing is sandwiched between the two materials.

Seamless containers, rigid circular detachable drum liners and rigid self-standing tanks, manufactured by the Engel process of polythene moulding, were shown by ROSEDALE GROUP OF COMPANIES, London, W.1. The group was also featuring polythene export carboys of 5, 10 and 15 gall. capacity, with moulded screw caps and fitted inside metal drums.

TELEGRAPH CONSTRUCTION & MAINTENANCE Co., LTD., London, W.C.1, showed laminated polythene and cellulose film for packaging, including the strip-packaging of tablets.

Medical Equipment

ALGEMENE KUNSTZIJDE UNIE N.V. (PLASTICS DEPARTMENT), Arnhem, Holland, were showing a range of sterilisable medical equipment, including blood transfusion apparatus, syringe containers, drinking or sputum mugs, and kidney dishes, manufactured from the company's product, Akulon nylon.

Specially compounded polyvinyl chloride for the manufacture of blood transfusion apparatus was shown by BECK, KOLLER & Co. (ENGLAND), LTD., Liverpool. An interesting exhibit was a London County Council ambulance with body, front moulding, and floor moulding of plastic.

A very fine bore polythene tubing for surgical use was shown by TELEGRAPH CONSTRUCTION & MAINTENANCE Co., LTD., London, W.C.1.

Laboratory and Plant Equipment

A range of polythene laboratory ware displayed by AIROTHENE, LTD., London, N.W.1, included taps, aspirator bottles, and drums up to 50 gall. capacity complete with tap. The company's $\frac{1}{2}$ -in. bore stopcock tap has been redesigned.

Mouldings in glass fibre reinforced polyester resin shown by ASHDOWN'S, LTD., St. Helens, Lancs, included a Büchner vacuum filter as used in the pharmaceutical industry; the company can also supply, in the same material, ducting for corrosive chemicals and tanks for corrosive liquids up to 2,500 gall. capacity, complete with glass fibre gantry.

Vybak polyvinylchloride sheet, for use as tank linings, etc., in chemical plant, was featured by BAKELITE, LTD., London, S.W.1.

Glass fibre reinforced polyester resins suitable for use in chemical plant installations were featured by BECK, KOLLER & Co. (ENGLAND), LTD., Liverpool.

Polythene for chemical plant linings was shown by COMMERCIAL PLASTICS, LTD., London, W.1.

A glass fibre reinforced polyester resin chemical plating tank supplied up to 400 gall. capacity was shown by HALEX (A DIVISION OF THE BRITISH XYLONITE Co., LTD.).

Shown on the stand of IMPERIAL CHEMICAL INDUSTRIES, LTD. (PLASTICS DIVISION), Welwyn Garden City, Herts, were containers, piping, etc., made from I.C.I. plastics for chemical plant.

INSULATORS, LTD., London, N.18, were showing a range of glass fibre re-

inforced polyester resin mouldings for chemical plant, and a range of moulded polythene laboratory ware.

Featured by LACRINOID PRODUCTS, LTD., Gidea Park, Essex, was Vietum sleeving, an expanded polyvinyl chloride tubing which shrinks on heating and may be used to cover pipes, etc., to render them acid and corrosion-resistant.

MARSTON EXCELSIOR, LTD., a subsidiary of Imperial Chemical Industries, Ltd., were featuring titanium tubing and polythene tubing, both covered in glass fibre, and a chemical dosing tank in glass-fibre-reinforced polyester resin for use in water purification plant.

A range of polytetrafluorethylene products was shown by SIEMENS EDISWAN, LTD., London, W.C.2. The material is chemically inert under extreme temperature changes, and can therefore be used as a cheaper alternative to platinum for beakers, evaporating dishes, etc. The material is fabricated by the company to customers' requirements.

Telcomesh, a material composed of polythene reinforced with a mesh of Terylene or glass fibre, was shown by TELEGRAPH CONSTRUCTION & MAINTENANCE Co., LTD., London, W.C.1. The material can be used for containers or tank linings for corrosive liquids and is especially recommended by the makers for high-test peroxide. Other suggested uses are for conveyor belting in chemical plant where corrosives are used, or for damp courses in laboratories where the atmosphere contains corrosives.

TENAPLAS, LTD., Pangbourne, Berks, exhibited a range of sections and tubing in flexible polyvinyl chloride, polythene, acetate, and rigid and unplasticised polyvinyl chloride, including polythene and rigid polyvinyl chloride tubing up to 12 in. diameter. The stand featured a typical chemical plant assembly, and the company states that it can carry out the complete work, including design, extrusion and installation. A working model of a dye works, with polyvinyl chloride installation throughout, was also shown. The company showed multi-bore plastic tubing, that may be used in scientific instruments.

A range of ducting, storage and processing tanks, and other plant components for the chemical industry, moulded from glass fibre reinforced polyester resin, and including a cowl and guide for fume extraction, was shown by THERMOPLASTICS, LTD., Dunstable, Beds.

Colour standards for the Lovibond Comparator, for colorimetric chemical analytical procedures in the plastics industry were shown by THE TINTOMETER, LTD., Salisbury, Wilts. Among the colour discs made are those for hydroquinone in styrene, copper in formaldehyde, iron in formaldehyde, etc. The company states that there are now more than 300 standards available for the comparator.

Miscellaneous

A novel personal weighing machine for children, displayed on the stand of CELGRAVE Co., LTD., London, S.E.15, is made by H. Fereday & Sons, Ltd., London, N.7. The machine

which weighs up to 80 lb. and is of the slide-scale type, has a tubular metal frame, incorporating a hinged drop-down chair seat; the seat has metal arms to which is fitted a rack holding a removable Perspex pan for weighing babies.

A new plastic material for baby pants was shown by COMMERCIAL PLASTICS, LTD., London, W.1.

Champagne whiting, in about a dozen different grades and varieties according to different applications, was shown by CROXTON & GARRY, LTD., Kingston-on-Thames. The raw material is a naturally-occurring calcium carbonate found in the Champagne district of France. Different varieties are used as fillers in the plastics industry, but they may also be used as diluents in tooth-pastes, insecticides, fertilisers, etc. A 2 cwt. piece of the rock, which is virtually pure calcium carbonate, was on show.

Melinex, a new, tough transparent film having the same chemical formula as Terylene, was shown by IMPERIAL CHEMICAL INDUSTRIES, LTD. (PLASTICS DIVISION), Welwyn Garden City, Herts.

Tenox B.H.A. antioxidant for fats was shown by KODAK, LTD., Kirkby Industrial Estate, Liverpool.

Thermoplastic mouldings exhibited by PUNFIELD & BARSTOW (MOULDINGS), LTD., London, N.W.9, included a new, larger container for contact lenses, in white or coloured polystyrene, spectacle and other hearing aids, and novelties for cosmetics and perfumery packaging.

Corrosion resistant trays and bins, nylon baby pants manufactured from nylon supplied by the group and bulk sponge material for plastic sponges were among the items shown by the ROSEDALE GROUP OF COMPANIES, London, W.1.

Croxline antistatic solution, for use on extruded, moulded and formed plastic articles, was shown by SHERIDAN CROXTED, LTD., London, W.C.1. When applied to the article, the product is claimed to remove any static charge, and to prevent its recurrence for up to one year, eliminating the dust-attracting property of the plastic. The solution may be applied by brushing, dipping or spraying, and the articles can then be stored without dust accumulation.

Ralsin, a new French-manufactured polyamide derived from 11-amino undecanoic acid, was shown by WHIFFEN & SONS, LTD., London, W.1. Ralsin, which is claimed by the manufacturers to be the lightest polyamide industrially available, is sterilisable and non-toxic, so that Ralsin mouldings are suitable for the manufacture of hypodermic syringes, tubing, plasma bottles, blood transfusion equipment, etc. Ralsin pipes are non-corroding and chemically-resistant, except to mineral acids at high temperatures. Coating with Ralsin by spraying or dipping protects pipes, machinery, etc., against corrosion or shock.

Protective Clothing

Polyurethane-proofed nylon for industrial protective clothing, in an attractive range of colours and a variety of weights, including a specially heavy weight for workers on metallic plating processes, was shown by Ioco, LTD, Glasgow.



FAREX—the food that shepherded her on to solids, as soon as she weighed about 15 lbs. Farex — her basic food for the past six months. Farex — part of her daily diet for the rest of the formative years to come. Farex — what a satisfying product to handle.

FAREX—the 3-cereal food

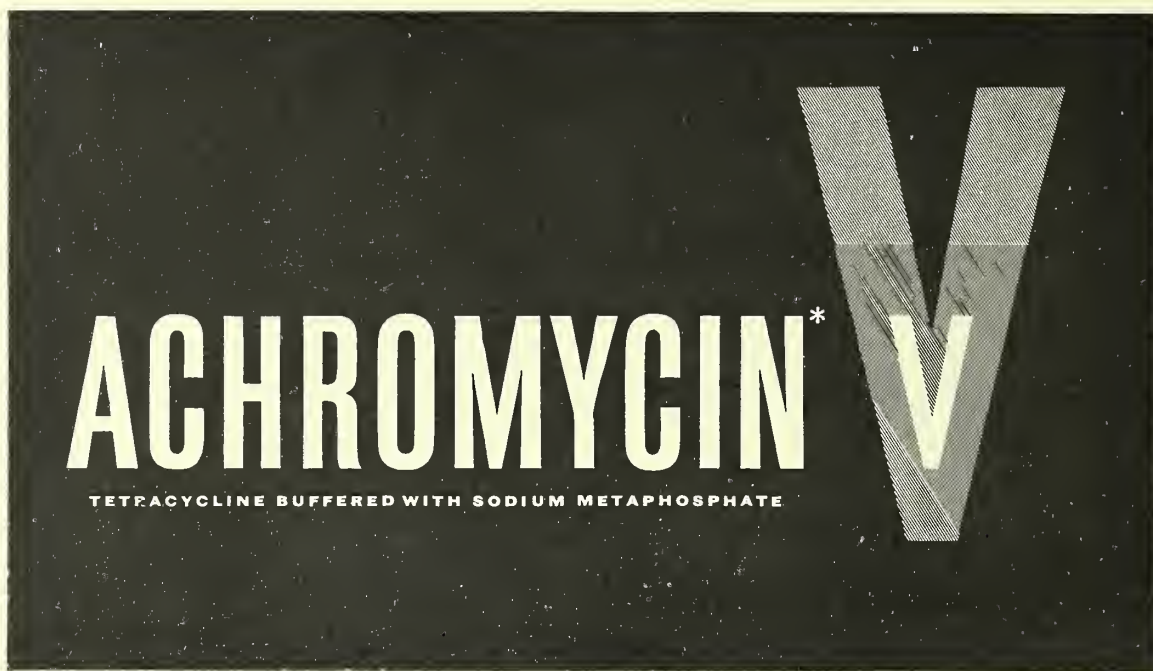
TRADE MARK

In 10 oz. cartons

RETAIL PRICE 1/4 each. WHOLESALE PRICE 12/10 per doz. PARCEL RATE 2 doz. x 10 oz. cartons £1.4.0.

Into Farex goes all the experience of Glaxo Laboratories

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX BYR0n 3434



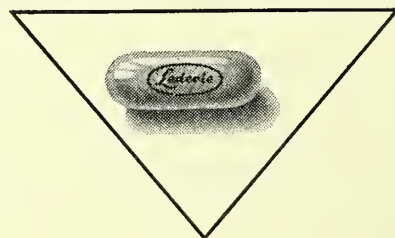
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makes the therapy more secure

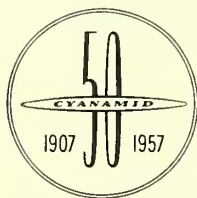
ACHROMYCIN V is an improved, oral form of ACHROMYCIN tetracycline—already recognised as today's foremost self-sufficient broad spectrum antibiotic. ACHROMYCIN V combines ACHROMYCIN tetracycline with sodium metaphosphate to provide more rapid absorption of tetracycline and higher levels of the antibiotic in the blood. This is achieved without any increase in the daily dosage of the antibiotic.

ACHROMYCIN V is presented in oral capsules containing 250 mg. ACHROMYCIN tetracycline and 380 mg. Sodium Metaphosphate.

Bottles of 16, 100 and 1000 Capsules



RECOMMENDED DOSAGE : As for ACHROMYCIN 1 Gm.
daily for the average adult



LEDERLE LABORATORIES DIVISION
Cyanamid OF GREAT BRITAIN LTD., London, W.C.2

MANUFACTURERS' ACTIVITIES



AWARD TO STAR SALESMAN: The award for "Ortho overseas salesman of 1956" was made to R. C. Chris Brantzen, Denmark, at the recent summer sales conference of Ortho Pharmaceutical, Ltd., High Wycombe, Bucks.

"Workers' Playtime." — The B.B.C. radio programme "Workers' Playtime" was recently broadcast from the factory of the Scholl Manufacturing Co., Ltd., St. John Street, London, E.C.1.

French Brushes on Show.—A display of French toilet brushes was staged recently in London, by Hughes Brushes, Ltd., 32 Ajax Avenue, Trading Estate, Slough, Bucks. The company intends marketing a range of French brushes in Britain.

Long-term Development Plans. — Pfizer, Ltd., are moving their administrative headquarters in two years or so from Folkestone to Sandwich, Kent. A new administrative block is being built on the site at Sandwich adjacent to the company's principal production, development and research facilities. For technical convenience one or two administrative sections are moving to Sandwich in about four months' time, but no major move is planned before about the latter half of 1959. The company's factory in Folkestone is unaffected by the plans.

Long Service Awards.—At a luncheon held in Liverpool recently by R. Sumner & Co., Ltd., manufacturing chemists, 40 Hanover Street, Liverpool, awards were presented to long-serving members of the staff by Mrs. R. Whitfield (wife of the managing director). Among those who received long service presentations was Mr. J. F. O'Hara (a director of the company), who had com-

pleted forty-five years of service. Others honoured were Miss R. Crosby, Messrs. F. Gatcliffe, A. E. Morris, W. Powell, E. Booth, F. Macklin, and H. Smith. Mr. R. Whitfield (chairman) presided at the luncheon.

New Office and Factory. — Sharples Centrifuges, Ltd., are now installed in new head office and works at Tower Works, Doman Road, Camberley, Surrey. At their official opening recently Mr. J. J. Serrell (responsible for overseas operations) mentioned that the company's activities were rapidly expanding throughout the world. Within the factory area are a pilot plant, a laboratory and a test bay linked with a glass-enclosed tower designed to take special tanks used for development purposes. The Tower works will accommodate production, planning, technical and sales divisions of the company.



STREPTOMYCIN'S DISCOVERER: Dr. Selman Waksman, the U.S. bacteriologist and discoverer of streptomycin, photographed during an informal visit to Glaxo Laboratories, Ltd., Greenford, recently. Dr. Waksman showed interest in "historic" flasks used to grow penicillin in the early days of production and now used to grow cultures for diphtheria toxin. With Dr. Waksman are Dr. A. H. Campbell (a director of the company) and Dr. J. Ungar (head of the biological department, Greenford).

Supplies for Expedition. — A large supply of Terramycin donated by Pfizer, Ltd., Folkestone, is among medical supplies that will accompany a sixteen-man university expedition that is setting out from Britain to Tibesti, North Africa, this month, to explore some of the

highest mountains in the Sahara. Problems of zoological, medical, veterinary and geographical interest are being studied. One task will be to collect human and animal blood samples for the Medical Research Council's Blood Group Research Laboratory, and in the course of this work to undertake a variety of medical and veterinary treatments amongst the local tribes of the region. An advantage of Terramycin for the purposes of the expedition is that, provided it is kept dry, it is not affected by high air temperatures.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," July 10

For shaving instruments and parts (8)
DISTLER, 764,550, by Distler, Ltd., Walton-on-Thames, Surrey.

For cameras and projection apparatus, all being cinematographic or photographic; lens holders, holders for light filters, flashguns, etc. (9)
BALDESSA, 764,129, by Julius Joseph Silber, London, W.C.1.

For all goods (10)
DISTULE, 764,474, by Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 19.
METER-MISER, 765,713, by Rexall Drug Co., Ltd., Loughborough, Leics.

For surgical prophylactic appliances made of rubber (10)
Device with words VULKAN SANEX, 762,124, by Kolnische Gummifaden-Fabrik vormals Ferd. Kohlstadt & Co., Cologne-Deutz, Germany.

For toilet paper, paper towels and paper napkins, none being medicated (16)
CHARMAIN, 762,550, by Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

For rubber gloves for domestic use (other than bottling gloves) (21)
Device of words LONDON SUREGRIP "SKIN-THIN," B764,310, by London Rubber Co., Ltd., London, E.C.2.

From the "Trade Marks Journal," July 17

For chemical products used in agriculture, horticulture and forestry (1)
UNIFUME, 765,052, by Universal Crop Protection, Ltd., London, E.15.

For chemical substances for use in industry (none being adhesives) (1)
VISIFIX, 763,563, by Imperial Chemical Industries, Ltd., London, S.W.1.

For esters of polyhydric alcohols and fatty acids, for use as emulsifying agents in the course of manufacture (1)
WHITE GUARD, RIVAL, 763,835-36, by Advita, Ltd., London, E.C.4.

For all goods (1)
LOWID, 764,026, by Ferro Enamels, Ltd., Wolverhampton, Staffs. PELMOIST, 765,026, by Cadulac Chemicals, Ltd., Radcliffe, Lancs.

For fertilisers and soil-conditioning agents (1)
PERFECTILSER, RECILLIUM, 764,914-15, by Ralph Whiteley, Halewood, Lancs.

For chemical products for use in industry and science (1)
STAVOX, 765,445, by Shell Petroleum Co., Ltd., London, E.C.3.

For non-medicated face powder being a cosmetic preparation (3)
CREME PUFF, B747,989, by Max Factor & Co., Inc., Los Angeles, U.S.A.

For hair cream, brilliantine, toilet soap and talcum powder, all for sale in England, Scotland and Wales (3)
Device of word MARGO'S, 749,819, by Sidney Margolis, Ltd., London, N.W.2.

For soaps and detergents (not for use in industrial and manufacturing processes) (3)
MISS, 763,685, by Co-operative Wholesale Society, Ltd., Manchester.

For soap (3)
ROBOT, 764,923, by Gerard Brothers, Ltd., Nottingham.



CIVIC VISIT: The lord mayor of Sheffield with the president of Sheffield chamber of commerce on a recent visit to the Izal products factory of Newton, Chambers & Co., Ltd., Thorncliffe, nr. Sheffield. The visitors were shown machines manufacturing toilet rolls. In the picture Sir Peter Roberts, Bt., M.P. (chairman of the company), is seen explaining the processes involved.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JULY 24: The market for CRUDE DRUGS was quiet during the week and prices were rarely tested. Some buying of spot BUCHU took place and there were reports that a small parcel had been sold for shipment at 6s. 6d. per lb., c.i.f., although further business was not possible afterwards.

Cape ALOES for shipment was again 5s. per cwt. down on the week although it is believed that shippers are less inclined to let prices drift much further. With new-crop CANADA BALSAM coming along spot holders have reduced their quotations by one shilling per lb. CASSIA BARK was about 5s. per cwt. dearer on the spot. Jamaican Sarsaparilla was lower by twopence per lb. both spot and forward. GUMS ACACIA and TRAGACANTH were lower by 2s. 6d. and £5 per cwt. respectively. Tinnevely SENNA continued scarce on the spot with manufacturing pods believed cleared on the spot. Senna shipped from the port of Tuticorin during June is given below:

	U.K.	U.S.	CONTINENT
SENNA LEAVES	Tons 25	Tons 67	Tons 42
PODS	9½	4½	22

MERCURY was a shade easier on the spot (down £1 per flask) and BEESWAX from various origins by 20s. per cwt. Among AROMATIC SEEDS the price of CUMIN was firm and a little more inquiry existed for Indian FENNEL.

In ESSENTIAL OILS spot Chinese ANISE is still cheaper than shipment quotations, the same being true with regard to Chinese MENTHOL. There was a slight adjustment in the price of Formosan CITRONELLA, and Formosan PEPPERMINT has become scarce and dearer although there appears to be plenty of Brazilian oil available.

In PHARMACEUTICAL CHEMICALS the scarcity of TANNIC ACID is again reflected in the prices charged by manufacturers, which show a 1s. 9d. per lb. rise over previous quotations. The price of GALLIC ACID was also raised, the B.P.C. quality being one shilling per lb. dearer.

Pharmaceutical Chemicals

ADRENALINE. — Rates for synthetic B.P. are from 1s. 1d. (500-gm. lots) to 1s. 6d. (10-gm.) per gm. and ACID TARTRATE, B.P., from 9d. to 1s.

p-AMINOSALICYLIC ACID. — The SODIUM salt is about 24s. 9d. per kilo, minimum terms.

BARBITONE. — Rate for 50-kilo lots is 42s. 9d. per kilo. The SODIUM derivative is 46s. per kilo.

BISMUTH SALTS. — The following are the prices (per lb.) in largest bulk packages:—

	28 lb. to 1-cwt.	1-cwt.	5-cwt.
CARBONATE	s. d. 22 3	s. d. 21 9	s. d. 21 4
SALICYLATE	21 9	21 4	20 10
SUBGALLATE	21 1	20 8	20 2
SUBNITRATE	20 5	20 0	19 6

The 1-cwt. rates (per lb.) for other salts are:—CITRATE, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYDOGALLATE, B.P.C., 28s. 9d.; SODIUM TARTRATE, 35s. 6d.; and TRIBROMPHENATE, B.P.C., 26s. 9d.

CARMINE. — Price is 105s. per lb. for 1-cwt. lots.

DICOPHANE (DDT). — Prices are as follows:—1-cwt. lots 2s. 11½d. per lb.; 5-cwt., 2s. 10d.; 1-ton, 2s. 8½d.

GALLIC ACID. — Dearer, B.P.C. is 9s. 7d. per lb. for 1-cwt. lots. Smaller lots up to 10s. per lb. for 14-lb. lots. Technical grade is 8s. 10d. per lb. in 1-cwt. lots.

HYDRAZINE HYDRATE. — Price per ton is £153 for the 10 per cent. (w/v) solution and £33 for the 2½ per cent.

HYDROCYANIC ACID. — Dilute, B.P.C. is from 3s. 2d. to 4s. per litre, as to quantity; Scheele is from 3s. 10d. to 4s. 9d.

HYOSCINE HYDROBROMIDE. — Price per oz. is 102s.

ICHTHAMMOL. — B.P. is from 2s. to 2s. 6d. per lb. in 1-cwt. lots as to origin and container.

IODIDES. — Current quotations (per lb.) include the following.

	28-lb.	1-cwt.	5-cwt.
POTASSIUM	s. d. 10 3	s. d. 9 9	s. d. 9 4
SODIUM	14 1	13 2	12 9

IODINE. — Resublimed is 13s. 5d. per lb. in 1-cwt. lots, or 12s. 11d. in 5-cwt. lots. Minimum delivered rate for CRUDE is unchanged at 17s. 4d. per kilo.

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 6d. per lb. in 1-cwt. lots; SULPHATE, B.P. crystals are 9d. per lb. in 28-lb. lots; 1-cwt. is 55s. per cwt. and 5-cwt., 50s. per cwt. Granulated and pea crystals are 2s. 6d. per cwt. more; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt. 118s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 7d. per lb. OXIDE, RED PRECIPITATED, B.P.C. 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C. 1949, 28-lb., 3s. 1d.; 1-cwt., 2s. 10d. AMMONIUM SULPHATE, 1-cwt., 1s. 7d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

LACTOSE. — English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE. — B.P. crystals are 200s. per cwt. and technical, 180s.

MAGNESIUM HYDROXIDE. — Makers' prices for B.P.C. are 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MAGNESIUM PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

MAGNESIUM SULPHATE. — Quotations for B.P. in minimum 1-ton lots vary between £20 and £21 per ton according to size of crystal and manufacturer. Exsiccated is £42 per ton. All ex works.

MERCURY DERIVATIVES. — Quotations (per kilo) for 50-kilo lots are as follows:—AMMONIATED, B.P., lump or powder 62s. 9d.; PERCHLORIDE, B.P., powder, 55s. and lump, 56s. 3d.; SUBCHLORIDE (calomel) B.P., 63s. 3d.; OXIDES, yellow, B.P., 67s. 3d.; red, B.P.C., 1949, 68s. 3d. OXYCYANIDE, B.P. 85s.

METHOIN. — B.P. is about 120s. per lb. METHYL SALICYLATE. — Five-ton lots are 3s. per lb.; 1-ton, 3s. 0½d.; 10-cwt., 3s. 1d.; 5-cwt., 3s. 2d.; 1-cwt., 3s. 3d.

NIKETHAMIDE. — Prices per kilo are:—1-kilo, 113s.; 50-kilo, 105s.

OXALIC ACID. — Manufacturers' rates for 1-ton lots are from £129 per ton, delivered.

POTASSIUM QUADROXALATE. — One-cwt. lots are 3s. 6d. per lb.

POTASSIUM SULPHATE. — One-cwt. lots are from 1s. 2d. to 1s. 3d. per lb.

POTASSIUM THIOCYANATE. — One-cwt. lots are 5s. 6d. per lb.

STRYCHNINE. — ALKALOID, 6s.; HYDROCHLORIDE, 5s. 10d.; SULPHATE, 5s. per oz., ex works.

TANNIC ACID. — Dearer, The B.P. levis, ex ether is quoted at 8s. 9d. per lb. for 5-cwt. lots and 9s. per lb. for 1-cwt. The B.P. powder is 8s. 6d. per lb. in 1-cwt. lots.

Alcohol

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended March 31 is 300,000 or over the price is 4s. 6½d.; 200,000 and less than 300,000, 4s. 6½d.; 100,000 and less than 200,000, 4s. 7½d.; 50,000 and less than 100,000, 4s. 7½d.; 10,000 and less than 50,000, 4s. 8½d.; 2,500 and less than 10,000, 4s. 8½d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall. drums there is a surcharge of 1d. per proof gall.

The following grades are subject to a premium on the above prices as follows:—

Absolute Alcohol, 99.5 per cent., 74.5 o.p., 3d. more per proof gall., the special high strength (99.9 per cent., 75.2 o.p.), 5d. more. Doubly-Rectified Alcohol (S.V.R.), 95.8 per cent., 68 o.p. is 3d. more and P.I. Rectified Alcohol, 96.1 per cent., 68.5 o.p., 8d. more. R. R. Absolute Alcohol (re-rectified, 99.7 per cent., 75 o.p.), 15s. 8d. per bulk gall. net.

Methylated Spirits

METHYLATORS' rates per bulk gall. in Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, 6s. 3d.; 100 gall. and under 500 gall., 6s. 6d.; 30 gall. and under 100 gall., 6s. 9d.; 10 gall. and under 30 gall., 7s. 2d.; 5 gall. and under 10 gall., 7s. 7d. Strength 64 o.p., 1d. per gall. 66 o.p. (B.P.), 2d.; 68 o.p., 2½d. more than the above rates with 74 o.p. at 7s. 1d., 7s. 4d., 7s. 7d., 8s. and 8s. 5d. per gall. for similar quantities. Tank wagon delivery is 1½d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 11d. (tank wagon) for 500 gall. to 9s. 4½d. for 5-10 gall. (in drums) of 61 o.p.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 6s. 4½d.; 100 gall. and under 500 gall., 6s. 9d.; 30 gall. and under 100 gall., 7s.; 10 gall. and under 30 gall., 7s. 5d.; 5 gall. and under 10 gall., 7s. 10d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p. in one delivery, 100 gall. and under 500 gall., 6s. 9½d.; 30 gall. and under 100 gall., 7s. 0½d.; 10 gall. and under 30 gall., 7s. 5½d.; 5 gall. and under 10 gall., 7s. 10½d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over and methylated shellac finish is 1s. per gall. over the prices of pyridinised methylated spirit.

Terms:—Delivered free and carriage paid on returned empties; net cash one month.

Crude Drugs

ALOE.—Cape prime for shipment is 275s. per cwt., c.i.f.; spot, 310s.
ANTIMONY.—English 99.6 per cent. is £222 10s.; 99 per cent., £210 per ton.

BALSAMS.—Quotations (per lb.) are:—**CANADA:** Spot value 27s.; new-crop for July shipment, 26s., c.i.f. **COPAIBA,** Para is from 7s. 9d. to 11s., duty paid. **PERU,** 10s. 6d., duty paid (no c.i.f. offers). **TOLU** (genuine as imported), 27s. 6d.; B.P., 17s. 6d., spot.

BENZOIN.—Sumatra No. 1 block on the spot is £26 to £27 (£23 5s., c.i.f.), and No. 2 £21 10s. Almonds, 15s. per lb., c.i.f.

BUCHU.—Spot rounds are from 7s. 3d. per lb., shipment: supplies reported cleared.

CAPRICUMS.—East African are from 120s. to 210s. per cwt. on the spot, as to quality.

CARDAMOMS.—Aleppy greens on the spot are 15s. 3d. per lb. and shipment, 14s. 3d., c.i.f. No. 1 seed, 21s. per lb.

CASCARA SAGRADA.—Spot 1956 processed peel is 320s. per cwt., duty paid. New-crop, July-August, 245s., c.i.f., quoted, with whole at 249s., c.i.f.

CASSIA BARK.—Whole on the spot is now quoted at 140s. per cwt., in bond, and broken, 120s. in bond. For shipment broken No. 1 is quoted at 125s., c.i.f., and whole at 130s., c.i.f.

CASSIA FRUIT.—*C. fistula* is offered at 87s. 6d. per cwt. on the spot.

CHERRY BARK.—Thin natural is from 1s. 10½d. per lb., duty paid, and rossed, 2s., on the spot.

CHILLIES.—Mombasa on the spot are 245s. per cwt.; shipment, 210s., c.i.f.

CINCHONA.—Parcels of druggists' bark *Succirubra* hybrid, total alkaloids 6.51-7.23 per cent. from 1s. per lb. on the spot.

CLOVES.—Zanzibar on the spot are quoted at 3s. 4½d. per lb. Shipment, 3s. 2d., c.i.f.

COCILLANA.—Bark is 1s. 11d. per lb. on the spot.

COLOCYNTH PULP.—Spot, 4s. 4d. per lb.; shipment, 3s. 6d., c.i.f.

DIGITALIS LEAF.—*Purpurea* is offered at 1s. 2½d. per lb., c.i.f.

ERGOT.—Portuguese is 6s. per lb., c.i.f., for prompt shipment and also 6s. spot. American, 7s. 3d., c.i.f. Bulgarian, 9s. 6d.; Hungarian defatted, 13s. 6d., spot.

GENTIAN.—Spot: French quoted at 185s., c.i.f. and 200s. on the spot; Spanish, 165s. Jugo-Slavian, 155s. to 165s. as to seller.

GINGER.—African on the spot is 150s. per cwt. and July-August shipment, 125s., c.i.f. Jamaican No. 3 on the spot is offered at 580s. and shipment at 550s., c.i.f. Cochinchina spot, 122s. 6d.; shipment, 105s., c.i.f.

GUM ACACIA.—Kordofan cleaned sorts are 137s. 6d. per cwt. on the spot; afloat 127s., c.i.f.

LANOLIN.—ANHYDROUS, B.P. is from 175s. to 190s. per cwt. and HYDROUS, B.P., 150s. to 170s.

LIQUORICE.—Natural root: Anatolian is 47s. per cwt., Russian, scarce at 52s. 6d. Block juice: Anatolian, 200s. per cwt.; Chinese and British, 195s. on the spot. Italian stick from 310s. to 476s. per cwt. Spray-dried extract, 2s. 9d. per lb.

MERCURY.—Price per flask (76-lb.) is £89 on the spot.

PEPPER.—White Sarawak is 2s. 4d. per lb. on the spot, with July shipment at 2s. 3d., c.i.f. Black Sarawak, spot, 1s. 9d. per lb., July shipment, 1s. 7d., c.i.f. Black Malabar quiet at 210s. per cwt. on the spot; prompt shipment, 200s., c.i.f.

PEPPERMINT LEAVES.—Dutch for shipment are offered from 2s. 6d. to 3s. per lb., c.i.f.

PIMENTO.—Spot is 495s. per cwt. with forward at 450s., f.o.b.

PODOPHYLLUM.—*Emodi* is 165s. per cwt., c.i.f. *Peltatum*, 4s. per lb. spot, and 430s. per cwt., c.i.f., for shipment.

QUASSIA.—Chips are 42s. 6d. per cwt. on the spot. Shipment not quoted.

QUILLAIA.—Spot offers of bark at 195s. per cwt. with shipment at 145s., c.i.f.

QUINCE SEED.—Spanish is offered at 5s. 6d. per lb., spot.

RAUWOLFIA.—*Serpentina* is 4s. 3d. per lb., c.i.f., and *vomitaria*, 2s. 3d., c.i.f.

RHUBARB.—Quotations for Chinese are from 6s. 6d. to 9s. 3d. per lb., as to quality.

SAFFRON.—Mancha Selecta is 250s. per lb., on the spot.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 9½d. per lb., and for shipment, 2s. 8d., c.i.f.

SEEDS.—(Per cwt.). **ANISE.**—Cyprian, 170s.; Bulgarian, 145s., duty paid. **CARAWAY.**—Dutch, 115s., duty paid. **CELERY.**—Indian, 180s., spot. **CORIANDER.**—Moroccan, 95s.; Rumanian, 65s.; Polish, 57s. 6d. (splits 52s. 6d.) all duty paid. Shipment: Moroccan, 62s. 6d., c.i.f. **CUMIN.**—Firm. Spot: Cyprian, 180s.; Iranian, 175s., duty paid. For shipment, Cyprian quoted at 160s., c.i.f. **DILL.**—Indian, 65s., spot. **FENNEL.**—Indian, 125s., spot. **FENUGREEK.**—Indian, 67s. 6d.; Moroccan, 65s., duty paid. **MUSTARD.**—English, 60s. to 75s., according to quality.

SENEGA.—Spot is 18s. per lb. with shippers asking 18s., c.i.f.

SENNA.—*Tinnevely* LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q., No. 3, 10d.; PODS, manufacturing, cleared, Special green, 2s. 3d. spot; new-crop f.a.q., 1s. 2d., c.i.f. *Alexandrian* pods available from 1s. 6d. to 3s. 6d. per lb., with hand-picked at up to 6s.

SHELLAC.—F.O.T.N. 210s. per cwt., F.O. No. 1, 230s.; fine orange, 250s. to 310s.

SLIPPERY ELM.—Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 57s. to 62s. 6d.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS.—*Kombé* on the spot is 7s. 9d. per lb. for the 100 per cent.; *Gratus* is unobtainable on the spot.

STYRAX.—Scarce on the spot. Price nominally 8s. 9d. per lb. No shipment offers.

TONQUIN BEANS.—Para on the spot are cleared; prompt shipment offered at 10s. 6d. per lb., c.i.f.; October-November, 8s., c.i.f.

TRAGACANTH.—No. 1 ribbon is £160 to £165 per cwt., No. 2, £142 10s. to £147 10s.

TURMERIC.—Madras finger on the spot is 57s. 6d.

VALERIAN ROOT.—Dutch for prompt shipment is 182s. per cwt., c.i.f., and Belgian, 190s., c.i.f. Indian on the spot is 135s. per cwt.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 25s. 3d.; 1-cwt., 25s. 6d.; 56-lb., 25s. 9d.; smaller quantities, 26s.

WAXES—(Per cwt.). **BEES'**—Dar-es-Salaam, spot, 530s., shipment, 520s., c.i.f.; Sudanese, 530s., duty paid and 470s., c.i.f. Abyssinian, spot, 500s. in bond; July shipment, 500s., c.i.f. **CANDELLILLA.**—Spot is 530s. **CARNAUBA.**—Fatty grey, spot, 557s. 6d. per cwt.; for shipment, 540s., c.i.f., Prime yellow, spot, 1,130s.; shipment, 1,085s., c.i.f.

WITCH HAZEL LEAVES.—Spot supplies are 2s. 3d. per lb.; prompt shipment, 2s. 1d., c.i.f.

Essential and Expressed Oils

ALMOND.—British oil is 11s. per lb.; imported, 10s.

AMBER.—Rectified on the spot is 1s. 6d. per lb.

ANISE.—Chinese, 11s. 6d. per lb., spot; shipment, 12s., c.i.f.

BERGAMOT.—Spot supplies are from 73s. per lb.

CAMPOR, WHITE.—Chinese is 2s. 4½d. per lb., duty paid.

CASSIA.—Spot is scarce at about 13s. 6d. per lb. with shipment, 12s. 9d., c.i.f.

CITRONELLA.—Ceylon, spot, 5s.; July-August shipment, 4s. 6d., c.i.f. Formosan, July-August shipment, 6s. 7d. September-October, 6s. 3d., c.i.f.

CLOVE.—Madagascar leaf is 7s. 11d. per lb., duty paid and 6s. 10d., c.i.f., for shipment. Rectified B.P., 17s. 6d. 87-88 per cent., 10s. 6d. Distilled bud oil, English, from 28s. 9d. to 35s. as to quantity.

DILL.—B.P. English-distilled oil prices are nominal; imported from 36s. per lb.

EUCALYPTUS.—70 to 75 per cent. eucalyptol on the spot is 4s. 9d. per lb. 80 to 85 per cent., 5s. 6d.

GINGER.—English-distilled oil is 190s. per lb. Imported: Jamaican, 167s. 6d.; Chinese, 100s., duty paid.

GINGERGRASS.—Spot offers are from 27s. 6d. per lb.

LAVANDIN.—Spot is 13s. per lb. for original drums.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 23s. and 35s. per lb. Californian, 28s. 6d. to 36s. 4d., c.i.f., as to quality, subject to licence.

LEMONGRASS.—Spot is 8s. 3d. per lb., and August shipment, 8s., c.i.f.

LIME.—West Indian distilled is 50s. per lb. on the spot. Supplies short.

NUTMEG.—Imported B.P. oil is about 105s. per lb. English-distilled, 180s. nominal.

OLIVE.—Spanish is 27s. and French 26s. 6d. per gall. on the spot, ex-wharf, for B.P. quality.

ORANGE.—Spot quotations of sweet oil include Floridan at 4s. per lb.; Californian, 9s.; West Indian, 7s. 6d.; South African, 7s.; West African, 15s. 6d. For shipment, proprietary brand Californian cold-pressed U.S.P., 13s. 2d., c.i.f. Terpeneless is 200s. per lb., spot and bitter, 21s. 6d. per lb.

PEPPERMINT.—*Arvensis*: Chinese is 28s. per lb. on the spot and 27s. 3d., c.i.f. Brazilian, 18s. 6d., spot, and 17s. 9d., c.i.f. Formosan, July-August, 18s. 6d., c.i.f.; spot 19s. 6d. Italian "Mitcham" type oil on spot is from 52s. 6d.; American, 28s. to 40s. as to origin.

PIMENTO.—English-distilled berry is 180s. per lb.; imported, 75s. Rectified leaf, 27s. 6d. per lb. for small lots.

SPEARMINT.—Offers of U.S.P. grade are from 29s. per lb. on the spot.

TANGERINE.—Spot supplies offered from 23s. to 36s. per lb. as to quality.

THYME.—Spot is 10s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, JULY 23: Considerable buying interest was noted in BRUCINE which advanced to 19 cents an ounce (up seven cents), for the ALKALOID and 15 cents, up five cents for the SULPHATE. Up 8 cents per lb. among CRUDE DRUGS was BUCHU at \$1.18. Lower was Jamaican SARSAPARILLA at 58 cents (down two cents). Lower per lb. among ESSENTIAL OILS were Haitian VETIVER at \$9.25 (down 25 cents), and LAVANDIN at \$2.75 (down 10 cents).

HERB CROPS, 1957

THE following crop report has been received from William Ransom & Son, Ltd.:—

Crops on the whole will be below average this year. They have cost more to produce as more labour has had to be employed in their cultivation due to the adverse weather conditions. Those crops not already harvested have improved since the recent heavy rainfall and no more rain is required.

BELLADONNA.—Last year's plantations were an almost complete failure but the present crop is growing exceptionally well and we expect to harvest a heavy crop in August.

CHAMOMILE.—A light crop due to the dry Spring. The rain has come too late to be of any assistance.

DIGITALIS.—A light crop but recent weather conditions have helped.

HEMLOCK.—A good crop. The seed will be collected at the end of July.

HENBANE.—A good crop of first biennial is being cut. The second biennial was very light.

LAVENDER.—We have again increased our acreage. So far conditions have been ideal but dry sunny weather is now wanted. We expect the amount of oil distilled to be larger than for many years.

PEPPERMINT.—Crop will be very late. The old plantations suffered from the dry weather last month but are now growing well. This year's plantation is very backward and will not be harvested until the end of September. It is too early to give a definite opinion on the crop.

SQUIRTING CUCUMBER.—A poor crop now being harvested. We have already sold our entire output.

We have several small plantations of lesser known botanicals showing normal growth.

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies.

Sunday, August 4

LONDON: Silvikrin shampoo. Miraglo. Air-wick. Optrex eye lotion.

MIDLAND: Optone eye drops. Beecham's powders. Nivea. Elastoplast. Steradent. Phensic. Linc-o-lin beer shampoo. 5-Day deodorant.

NORTH: Optone eye drops. Beecham's powders. Nivea. Elastoplast. Steradent. Phensic. Sure Shield fruit-flavoured laxatives. Linc-o-lin beer shampoo. Sunsilk shampoos. 5-Day deodorant.

ALL: Creme Puff. Sunsilk shampoos.

Monday, August 5

LONDON: Silvikrin shampoo. Gibbs' S.R. tooth-paste. Ibcot. Air-wick. Beecham's powders. Nivea. Elastoplast. Iron Jelloids. Anadin.

MIDLAND: Gibbs' S.R. tooth-paste. Phyllosan.

NORTH: Silvikrin shampoo. Alka-Seltzer. Air-wick. Beecham's powders. Germolene. Phyllosan. Cephos.

ALL: Phensic.

Tuesday, August 6

LONDON: Nivea. Elastoplast. Phensic. Optrex eye lotion.

MIDLAND: Phyllosan. Flit insecticides. Band-Aid.

NORTH: Zoflora. Phyllosan. Delsey toilet tissue.

ALL: Gibbs' S.R. tooth-paste. Milk of Magnesia. Germolene.

Wednesday, August 7

LONDON: Miraglo. Nivea. Elastoplast

MIDLAND: Gibbs' S.R. tooth-paste. Sunsil shampoos. Anadin. Immac.

NORTH: Gibbs' S.R. tooth-paste. Phyllosan. Delsey toilet tissue.

Thursday, August 8

LONDON: Beecham's powders. Phensic.

MIDLAND: Gibbs' S.R. tooth-paste. Germolene. Nivea. Elastoplast. Flatter-Glo. Sunsil shampoos.

NORTH: Robinson's orange "smash." Gibbs' S.R. tooth-paste. Milk of Magnesia. Germolene. Phyllosan. Delsey toilet tissue. Flit insecticides. Flatter-Glo.

Friday, August 9

LONDON: Germolene.

MIDLAND: Robinson's orange "smash." Germolene. Nivea. Elastoplast. Band-Aid. Sunsil shampoos. Anadin.

NORTH: Milk of Magnesia. Zoflora. Phyllosan. Nivea. Elastoplast. Cephos.

ALL: Silvikrin shampoo. Gibbs' S.R. tooth-paste.

Saturday, August 10

LONDON: Alka-Seltzer. Iron Jelloids. Optrex eye lotion.

MIDLAND: Robinson's orange "smash." Pure Silvikrin. Alka-Seltzer. Milk of Magnesia. Zoflora. Nivea. Elastoplast. Steradent. Phensic. Band-Aid.

NORTH: Robinson's orange "smash." Pure Silvikrin. Milk of Magnesia. Vindex. Steradent. Phensic.

ALL: Moorland indigestion tablets. Gibbs' S.R. tooth-paste. Beecham's powders. Vita Glucose. Sunsil shampoos. Anadin.

Other products which are being currently advertised (but for which no day of showing has been notified) include: Rose's lime juice. Hand-joy. New Araby soap. Pride lacquer, egg and lemon shampoo and scalp milk. Meet dog food. Fynnon salt. P.L.J. Vistascreen viewer.

PRICE LISTS

GEIGY PHARMACEUTICAL CO., LTD., Wythenshawe, Manchester 23: Geigy Products, May 1957.

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool: List A, July 1957.

GARLISOL CO., 57 Park Terrace East, Horsham, Sussex: Trade list.

ANGLO-FRENCH DRUG CO., LTD., 12 Guilford Street, London, W.C.1: List with July 1957 amendments.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *Tax 30 per cent.; ‡=Tax 60 per cent.; †=Tax 90 per cent.

M. BEETHAM & SON (from August onwards)
Larola talcum powder tin† 9 0 1 11 R

COATES & COOPER, LTD. (from July 19)
Rhysol-Val dragees 1,000 21 6 28 9 R
The price of the 100-pack is unchanged.

COUNTY LABORATORIES, LTD. (from July 8)
Silvikrin cream shampoo*
tube small 12 7 1 9 A
large 18 8 2 7 A
hair tonic† small 15 10 3 0 A
large 26 4 5 0 A
hair dressing† small 15 10 3 0 A
large 26 4 5 0 A
Countess hair conditioning cream† small tube 10 6 2 0 A
Hiltone† 34 8 6 6 A

E. GRIFFITHS HUGHES, LTD.
Digestif Rennies* 6 9 11 A
12 11 1 9 A
22 4 3 0 A
Kruschen salts* 11 1 1 6 A
20 6 2 9 A

F. W. HAMPSHIRE & CO., LTD.
Zubes cough mixture* 17 3 2 3 A
29 0 3 9 A

OXO, LTD. (MEDICAL DEPARTMENT)
Miotrol-P tablets 500 60 3 R
1,000 116 11 R
Miotrol tablets 500 57 6 R
1,000 111 9 R
Oxoid thyroid-iodo-acet. salicyl. capsules 250 20 9 R
500 38 9 R
1,000 74 2 R

PFIZER, LTD. (tax being changed from July 29)
Atarax syrup 10 0 18 0 A
Atarax tablets are still exempt tax.

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

GLAXO LABORATORIES, LTD. (from July 15)
Ostelin liquid ½ oz. 18 0 2 0 R
2 oz. 38 3 4 3 R
Prepalin capsules 25 36 0 4 0 R
100 112 6 12 6 R

ADDITIONS TO THE LIST

F. COULTS & SONS, LTD.
Coutts acetic acid container* 35 0 53 0
White lotion A.L.20* 60 0 9 6
Pink lotion S.L.O.O.* 78 0 13 6
56 0 8 6

O. R. GROVES, LTD. (new size)
Citroze 14 oz. 48 0 2 6

MACLEANS, LTD.
Eno's Fruit Salt* (single dose pack of six packets) 11 8 1 6

DELETION FROM THE LIST

GENATOSAN, LTD.
Cejene tablets, 10
A. J. WHITE, LTD.
Murine eye drops.

NEW PRODUCTS AND PACKS

THE CROOKES LABORATORIES, LTD.
Injection of pituitary (posterior lobe), B.Vet.C. 15 mls 3 9
Vitaquota 3 lb. 47 6

EVANS MEDICAL SUPPLIES, LTD.
Hexavan implants 25 3 6
100 9 6
Evans veterinary implanter 9 6

GLAXO LABORATORIES, LTD. (from July 22)
Neomin tablets 20 67 6 90 0
Neomin oral liquid 2 fl. oz. 10 0 13 4

S MAW, SON & SONS, LTD.
Acriseptine* 5 0 9

POTTER & CLARKE, LTD.
Potter's glucose mixed-fruit pastilles ½ lb. 24 0 2 6

REVLON INTERNATIONAL CORPORATION (from September 23)
Persian melon non-smear lipstick† 8 6
Futurama lipstick† 10 6

nail enamel regular† 5 9
nail enamel frosted† 7 11

ROCHE PRODUCTS, LTD.
Lorphan 5 c.c. 10 6

PHOTOGRAPHIC DEPARTMENT

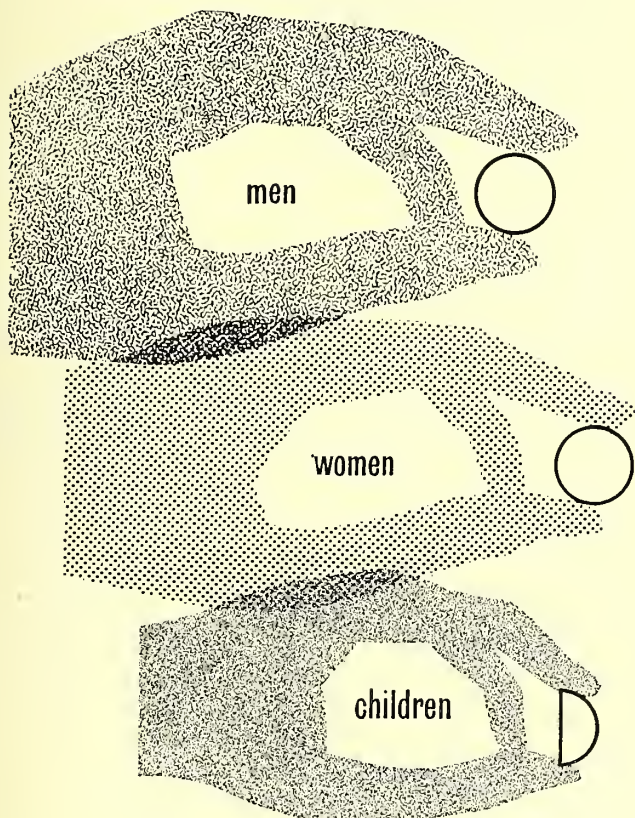
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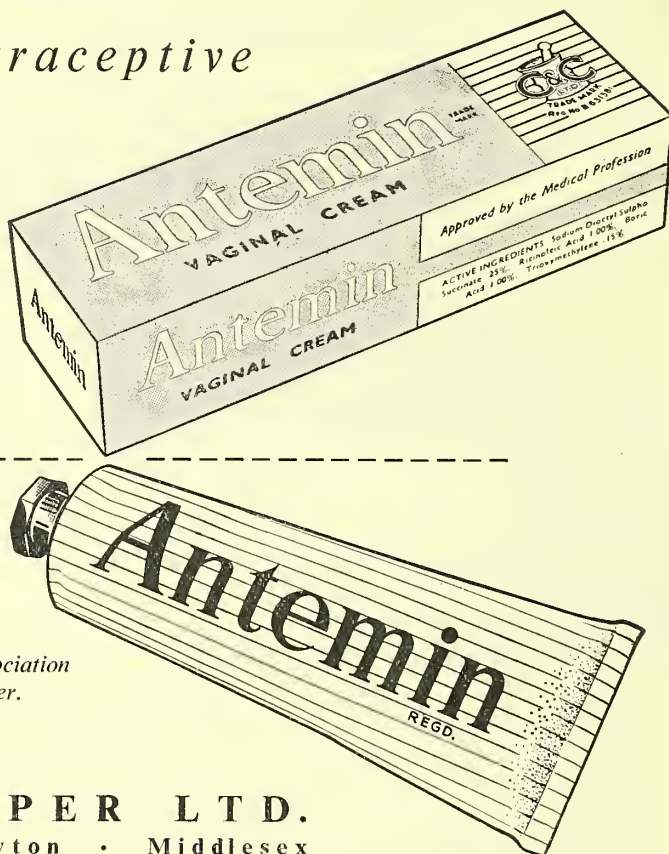
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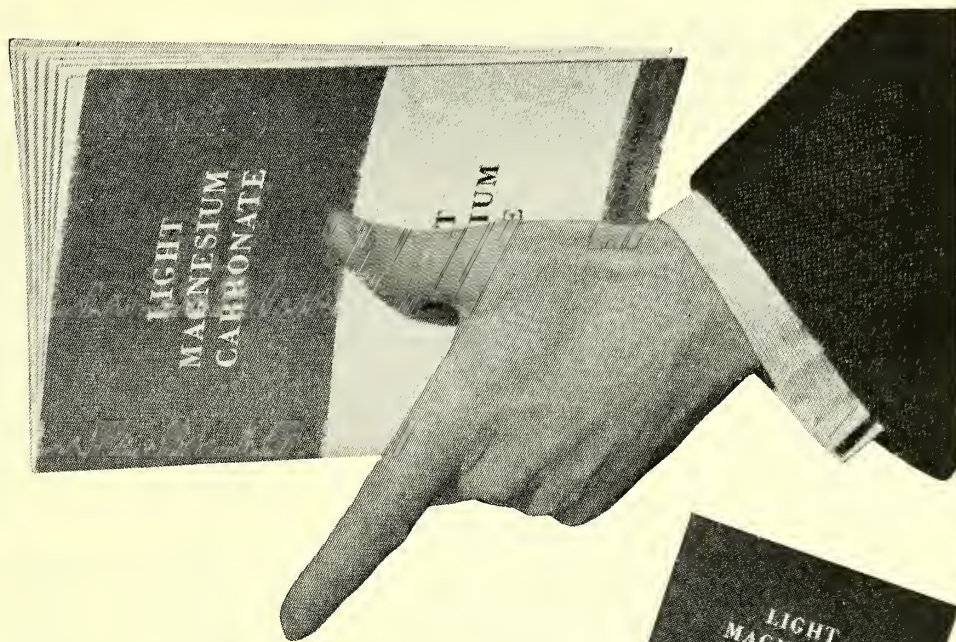
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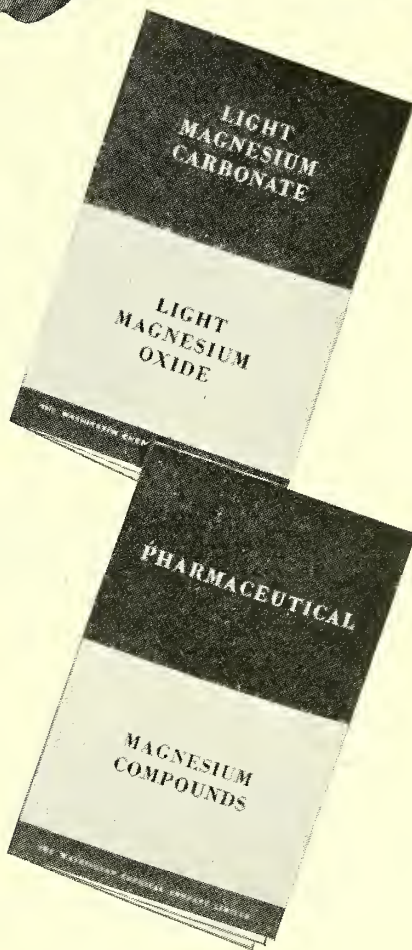
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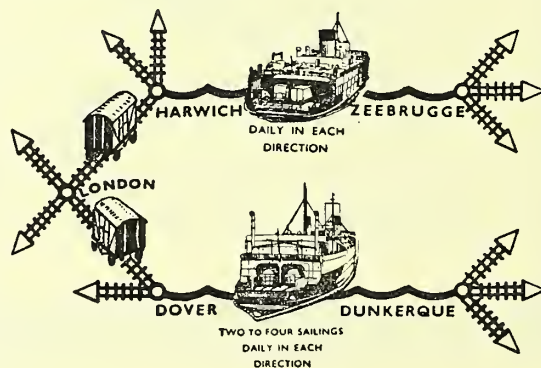
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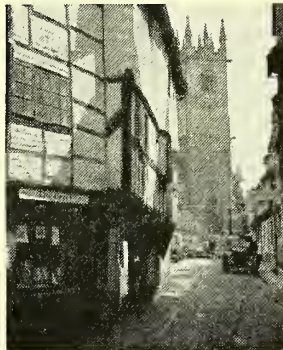
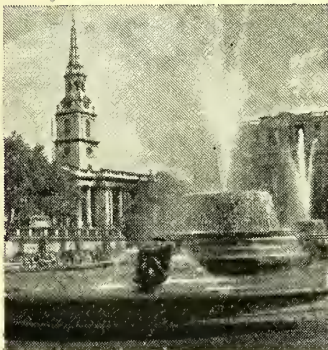


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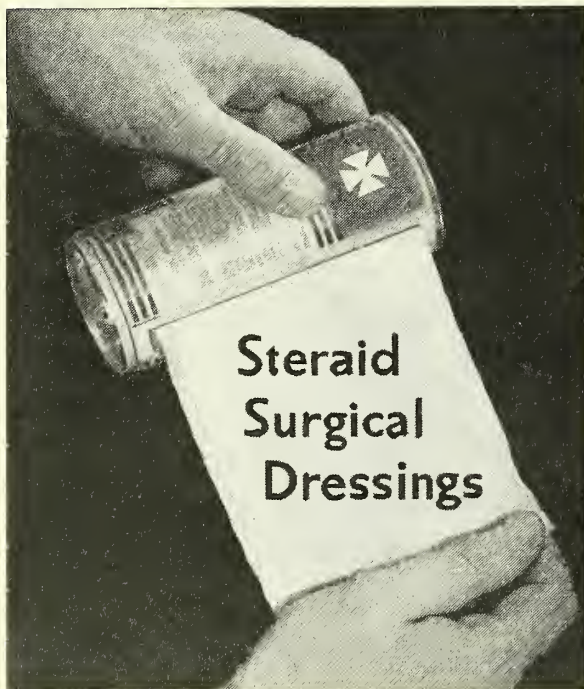
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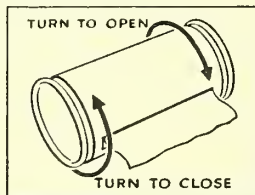


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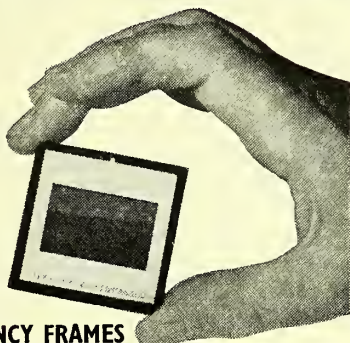
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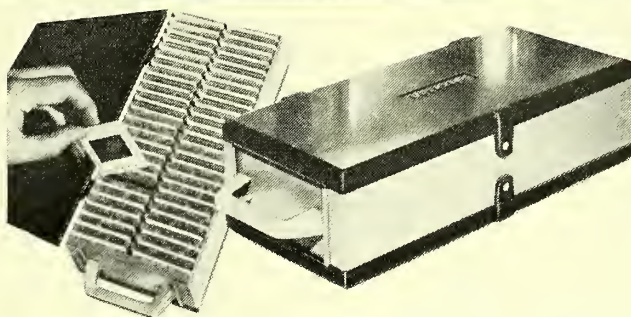


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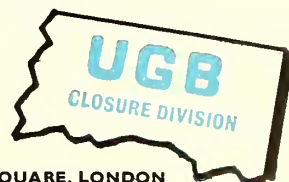
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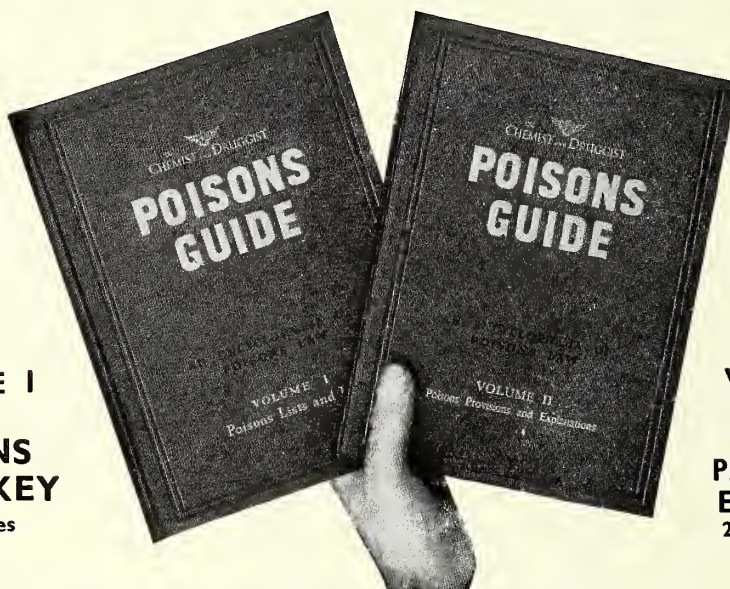
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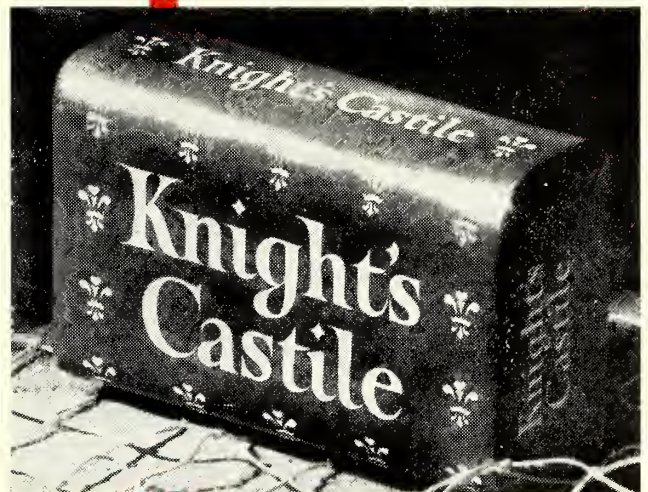
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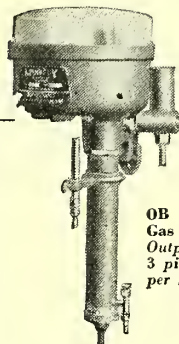
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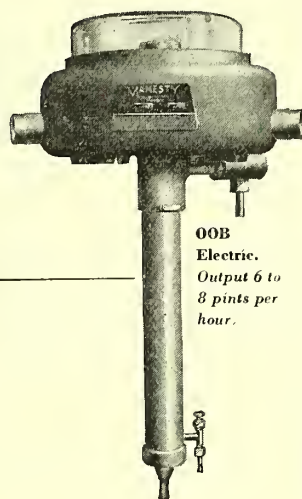
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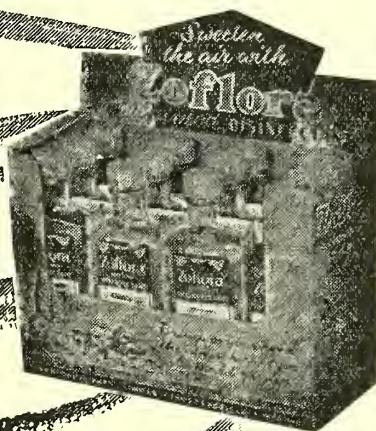
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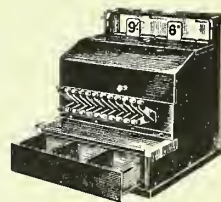
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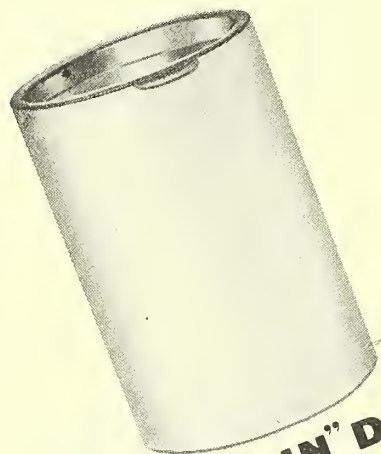
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The CHEMIST AND DRUGGIST

CLASSIFIED ADVERTISEMENTS (Prepaid)

Specialised spaced Advertisements, including:—Public and Legal Notices, Sale by Auction, Appointments, Contract Work, Patents, Partnerships, 18/- per 1/4 inch minimum and pro rata. Box 2/-. Clearances and Wants, Businesses for Disposal and Wanted, Premises, Agents Wanted, Agencies Wanted, Miscellaneous, 17/6 for 36 words minimum: then 4d. per word. Box 2/-. Situations Vacant, 12/- for 36 words minimum, then 4d. per word. Box 2/-. Situations Wanted, 3/- for 18 words minimum: then 2d. per word. Box 1/-. Replies to Box numbers should be addressed to:—The Chemist and Druggist, 28, Essex Street, Strand, London, W.C.2. Phone: CENTral 6565.

ORRIDGE & COMPANY

184 STRAND, W.C.2

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CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL

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PREMISES TO LET

LONDON BRIDGE. Excellent opportunity for chemist to acquire shop premises in newly erected block in St. Thomas Street, facing Guy's Hospital. Reasonable rent. Apply Herring, Son & Daw, 32 Clements Lane, E.C.4. Man. 7001. C 4833

BUSINESSES FOR DISPOSAL

LONDON, S.W. Old-established family business with house, Corner premises. Freehold. Turnover last financial year approaching £8,000. Owner retiring. No near opposition. For further particulars write Box C 4843.

MEDWAY TOWN. Lock-up pharmacy in main road. T/o exceeds £12,000 per annum, with good net profit. Valuable lease—7½ years unexpired. Rapidly expanding business. Domestic reasons cause of sale. Purchase price:—goodwill, fixtures and lease, £2,250. Stock at valuation (approx. £3,000). Private living accommodation for sale if required. Box C 4832.

SMALL LIMITED COMPANY. 15 miles from London, for sale, manufacturing since 1933 a contraceptive with continued regular sales to wholesalers, doctors and private persons, having also some export. Owner living abroad. Present manager unable to carry on owing to ill health. This business is easy to run and no special knowledge is required. Apply Box C 4827.

BUSINESSES WANTED

DRUG STORES WANTED. Midlands preferred. Box C 4811.

APPOINTMENTS

**BIRKENHEAD HOSPITAL
MANAGEMENT COMMITTEE,
ST. CATHERINE'S HOSPITAL,
CHURCH ROAD, BIRKENHEAD
(General Hospital of 478 beds)**
Pharmacist

Applications are invited for the above post. The position offers good experience. Salary Scale £580 x £30 (6)—£760 x £25—£785. Candidates with experience in the Retail Trade may enter the above scale at a point not exceeding £700 a year.

Apply within one week stating age, qualifications, experience, with the names and addresses of two referees to Secretary, above Committee, St. James' Hospital, Tollemache Road, Birkenhead. C 6889

BRISTOL MENTAL HOSPITAL MANAGEMENT COMMITTEE

Assistant-in-Dispensing

(preferably with Apothecaries' Hall Certificate) required within the Group, but mainly at Fishponds Hospital. Salary £170—£490 per annum according to age, with an additional allowance of £20 per annum for the certificate. New entrants aged 22 and over enter at £375 per annum. The post is superannuable. Applications stating age, education and experience together with the names and addresses of two referees should be sent to the Group Secretary, Bristol Mental Hospital, Fishponds, Bristol. C 6905

**CENTRAL GROUP HOSPITAL
MANAGEMENT COMMITTEE,
ST. LEONARD'S HOSPITAL,
NUTTALL STREET, LONDON, N.1**
Locum Pharmacist

required from September 2 to 7. Salary up to 16 guineas per week. Applications to Chief Pharmacist. C 6914

**CLARE HALL HOSPITAL,
SOUTH MIMMS, BARNET, HERTS**

Assistant-in-Dispensing
required. Whitley Council rate of pay, plus London Weighting. Applications to Medical Director. C 322

**CHERRY KNOWLE HOSPITAL,
RYHOPE, Nr. SUNDERLAND,
Co. DURHAM**
Pharmacist

full-time Chief Pharmacist, Category I; or part-time (seasonal rates as Pharmacist-in-sole-charge). Health Service scales and conditions. Active Psychiatric Hospital of 890 beds. Written applications forthwith to the Group Secretary. C 6824

**CRUMPSALL HOSPITAL,
MANCHESTER, 8**

Pharmacist

A vacancy exists for the above post. Whitley Council conditions apply. Please apply by letter to the Hospital Administrator as soon as possible. C 6904

**DOVER AND DEAL SUB-GROUP
HOSPITALS
(Acute General)**

Assistant-in-Dispensing

required for the above hospitals. Salary Scale aged 22 and over, £375 a year by annual increments to a maximum of £490 a year. Applications stating qualifications and experience with the names and addresses of two referees to be sent to the Hospital Secretary, Buckland Hospital, Dover. C 6890

**HAMMERSMITH HOSPITAL AND
POST-GRADUATE MEDICAL**

SCHOOL,

**DU CANE ROAD, LONDON, W.12
(Category V)**

Pharmacist

required at the above teaching hospital. Varied work and good experience. Pleasant working conditions. Previous experience not essential. Whitley salary scale (£580—£780 plus London Weighting: commencing point according to experience) and conditions. Age, qualifications, experience, names two referees to Secretary as soon as possible. C 6892

**HOSPITALS FOR DISEASES
OF THE CHEST**

Pharmacist or Senior Pharmacist

Applications are invited for the above post at The London Chest Hospital. Salary in accordance with the Whitley Council scales. Applications, stating age, qualifications and experience, accompanied by two testimonials, to the House Governor, London Chest Hospital, E.2. C 6902

**KIDDERMINSTER
GENERAL HOSPITAL,
WORCS**

Senior Pharmacist

required at the above hospital. Whitley Council scale of pay and conditions of service. Applications, in writing, together with age, experience and qualifications to the Hospital Secretary. C 6906

**KING EDWARD VII HOSPITAL,
WINDSOR
(Category III Hospital)**

Pharmacist

required at the above hospital. Apply with details of service and names of three referees to Secretary. C 6891

**LAMBETH HOSPITAL,
BROOK DRIVE, S.E.11**

Assistant-in-Dispensing

required at the above hospital. Whitley Council rates of pay and conditions. Applications in writing, giving names of two referees to the Secretary. C 333

**LEYTONSTONE (No. 10)
HOSPITAL GROUP**

Assistant-in-Dispensing

required at Whipps Cross Hospital, London, E.11. Salary according to age and experience rising to a maximum of £490 per annum plus London Weighting. Applicants must possess the Apothecaries' Hall Certificate in respect of which an additional £20 per annum is payable. Preference will be given to applicants with previous hospital experience. Application forms from the Hospital Secretary, to be returned as soon as possible. C 6804

**LAMBETH HOSPITAL,
BROOK DRIVE, S.E.11
(Acute General Hospital, 510 beds)**

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist in an expanding department. Salary (plus London Weighting) in accordance with Whitley Council Scale. Applications stating age, experience, qualifications and names of two referees to the Secretary. C 335

**LEWISHAM GROUP HOSPITAL
MANAGEMENT COMMITTEE**

Locum Pharmacist

required at Lewisham Hospital from July 29. Salary 16 guineas a week. Apply to the Chief Pharmacist, Lewisham Hospital, Lewisham High Street, London, S.E.13. C 6898

**MEDWAY AND GRAVESEND
HOSPITAL MANAGEMENT
COMMITTEE,
ST. BARTHOLOMEW'S HOSPITAL,
ROCHESTER
(201 beds)**
Pharmacist

(Full-time or part-time) required for busy general hospital; good experience. Recognised salary scale and conditions of service. Applications, giving full details of experience and names of two referees, to the Hospital Secretary. C 6862

**PHARMACEUTICAL COMMITTEE
FOR THE COUNTY OF LONDON**

(National Health Service)

APPOINTMENT OF SECRETARY

Applications are invited from Pharmaceutical Chemists for the whole-time position of Secretary to the London Pharmaceutical Committee. The Salary will be a matter for negotiation, and there will be participation in the Committee's non-contributory Superannuation Scheme after an initial period of service. Retail and Administrative experience and a knowledge of the National Health Service Regulations will be an advantage.

Applications, in writing, stating age, qualifications and experience, together with the names of two referees should reach the undersigned not later than Tuesday, 6th August, W. H. Green, M.P.S., Chairman of the London Pharmaceutical Committee, 107 Humber Road, London, S.E.3. C 6878

**SMITH & NEPHEW
PHARMACEUTICALS, LTD.**

New subsidiary of the famous British Group of Companies, offers careers to Pharmacists as Medical Representatives. Vacancies exist in two territories:—

S.W. England — Comprising Gloucestershire, Oxfordshire, Berkshire, Wiltshire, Dorset, Somerset, Surrey, Sussex, Hampshire, Devonshire and Cornwall.

Successful candidates will become members of an enthusiastic team of pharmacists visiting senior medical men. Previous experience, whilst desirable, is not essential as adequate training will be given. The work of our Medical Representatives is strongly backed by the close integration of the Company with the Group's Research Organisation. Salary in accordance with experience and qualifications; attractive Pension/Life Assurance and Bonus, after qualifying period; full expenses; company car provided. Apply in writing to: Director, Smith & Nephew Pharmaceuticals, Ltd., Bessemer Road, Welwyn Garden City, Herts. C 6886

Appointments—Continued**LONDON HOSPITAL ANNEXE,
ONGAR ROAD,
BRENTWOOD, ESSEX****Assistant-in-Dispensing**

required at this 200-bed Annex. Preference given to candidates holding the Certificate of the Society of Apothecaries. Salary in accordance with Whitley Council Scale. Write, House Governor, The London Hospital, Whitechapel, E.1. C 334

**NAPSURY MENTAL HOSPITAL,
Nr. ST. ALBANS****Locum Tenens Dispensing Assistant**

required (Hall Certificate) for three weeks from August 19 to September 7 inclusive. Salary £9 5s. 8d. per week. Applications endorsed "Locum Dispensing Assistant" to Group Secretary, Napsbury Mental Hospital. C 6903

**PINDERFIELDS GENERAL
HOSPITAL, WAKEFIELD****Locum Pharmacist**

required for August and September. Salary by arrangement. Apply immediately to W. Bowring, Group Secretary, Pinderfields General Hospital, Wakefield. C 6894

**QUEEN MARY'S HOSPITAL
FOR CHILDREN,
CARSHALTON, SURREY****Locum Assistant-in-Dispensing**

required immediately for indefinite period. Salary according to Whitley Council scales plus London Weighting. Applications stating age, qualifications and experience with the names and addresses of two referees should be sent to the Group Secretary, Queen Mary's Hospital for Children, Carshalton, Surrey. C 329

**PINDERFIELDS GENERAL
HOSPITAL, WAKEFIELD****Assistant-in-Dispensing**

required. Apothecaries' Hall Certificate preferred. Whitley Council salary scale applies. Address written applications, giving full personal particulars, details of qualifications, experience, and two names and addresses for reference, to W. Bowring, Group Secretary, Pinderfields General Hospital, Wakefield. C 6893

**ROYAL NORTHERN HOSPITAL,
HOLLOWAY ROAD,
LONDON, N.7****Locum Pharmacist**

required immediately for an indefinite period. Salary by arrangement. PHARMACIST required. Salary with range £580 to £785 p.a. plus London Weighting. Incremental credit for National Service or retail experience. Within easy reach of Archway and Holloway Road Undergrounds. Applications giving details of qualifications and experience with names of two referees to Hospital Secretary. C 6880

**SOUTH MANCHESTER H.M.C.,
WYTHENSHAW HOSPITAL,
MANCHESTER, 23****Chief Pharmacist**

required at the above Hospital (category II—acute General Hospital). Position vacant September 1957. Whitley Council conditions of service. Applications, stating age, experience, qualifications, together with the names of two referees to the Group Secretary, Withington Hospital, Manchester, 20. C 6861

**ST. MARY ABBOTS HOSPITAL,
MARLOES ROAD,
KENSINGTON, W.8****Pharmacist**

required. National salary scale and conditions. Hospital conveniently situated near Kensington High Street and Earl's Court. Applications and full particulars and names of two referees to Hospital Secretary (C.D.55), immediately. C 6907

**ST. HELIER HOSPITAL,
CARSHALTON, SURREY
(731 beds)****Assistant-in-Dispensing**

This post will become vacant at the beginning of August. Salary according to age and experience, plus London Weighting. Applicants should possess the Apothecaries' Hall Certificate. Good canteen facilities. Apply, giving names of two referees, to the Secretary. C 6831

**ST. MARY ABBOTS HOSPITAL,
MARLOES ROAD,
KENSINGTON, W.8****Locum Pharmacist**

required for any two weeks in September. Applications to Chief Pharmacist (CD63) (Western 8201) immediately. C 6900

**ST. HELIER HOSPITAL,
CARSHALTON, SURREY
(731 beds)****Post-graduate Student**

A vacancy for a Post-graduate Student will occur at the beginning of September. Applications should be made to the Secretary. C 6828

**ST. PETER'S HOSPITAL,
CHERTSEY, SURREY****Pharmacist and Assistant-in-Dispensing**

required. Whitley Council conditions. Hospital situated in rural surroundings within easy access of London. Accommodation available for single woman. Pharmacist .. £580 to £785 per annum according to experience Asst.-in-Dispensing .. £375 to £490 per annum Applications, stating age and experience, with names of two referees to Administrative Officer. C 6801

**THE LONDON HOSPITAL,
WHITECHAPEL, E.1****Registered Pharmacist**

Vacancy exists for the above post. Salary £580 x £30 (6)—£760 x £25 (1)—£785 according to previous experience and service. Accommodation available for women staff, if required, in hotel in Kensington run by the hospital. Write to House Governor. C 330

SITUATIONS VACANT**RETAIL HOME**

A PHARMACIST is required shortly, due to retirement, to take charge of very busy pharmacy situated in one of the best shopping positions in South London. This shop has a large turnover and the manager must be able to handle staff and be able to demonstrate and make sales. No rota duties but plenty of responsibility and scope. All replies will be treated in the strictest confidence, but full particulars of age, experience, etc., must be given. Superannuation scheme can be made available if required. Replies to Box C 4847.

BOOTS THE CHEMISTS invite applications for engagement as Pharmacists. Good prospects, permanent basis, salary according to age and experience, eligibility for Pension and Life Assurance, etc. Applications should be made to Retail Staff Department, Station Street, Nottingham, or alternatively through the nearest branch to the local Territorial General Manager stating age, experience and district preferred. C 6717

BOREHAM WOOD. Managing pharmacist required for modern and attractive business shortly to be opened. The post will provide a substantial salary structure and good supporting staff. There is attractive and modern accommodation available above this branch. Apply, stating full details and when available for interview to Box C 4838.

EXCELLENT opportunity for young pharmacist, male or female, to gain managerial experience and, if desired, to obtain a partnership in recently opened branch shop on new estate. Turnover and N.H. increasing. Commission on increase. Modern flat (two-bed) immediately available with situation. Particulars of experience and salary required to Milo Turner, Chemist, 28 George Street, Tamworth, Staffs. Tam. 219. C 4831

EXPERIENCED assistant (male or female) required for busy market town private pharmacy in the Lake District. Please give full particulars of experience and salary required to H. E. M. Evans, 2 Market Square, Kirkby Lonsdale, Via Carnforth. C 4828

KEEN, young pharmacist for retail assistant management. Excellent opportunity for progress. Mitchell, Darley St., Bradford. C 4830

LONDON CO-OPERATIVE CHEMISTS, LTD., have vacancies in various parts of London for post-graduate students. An excellent training can be given in modern pharmaceutical establishments with the possibility at the completion thereof of a substantial branch managerial appointment. Applications in writing to Chief Pharmacist, Grange Road, Leyton, London, E.10, when an appointment will be arranged for discussion. C 4839

MAIDA VALE. Unqualified lady counter assistant required in high-class family business. No Sunday, rota or half-day duties. Please apply to R. H. Parker, 35 Clifton Road, W.9, Canningham 6485. C 4836

ORRIDGE & COMPANY require stocktakers for London and South England. Attractive salaries. Expenses paid. Previous experience preferred but not essential. Apply by letter to 184 Strand, London, W.C.2. C 6877

PHARMACIST required by August 1 to manage modern branch, Swanley Junction, Kent. Minimum commencing salary £940 per annum, plus rota fees and bonus. Permanent superannuated post. Assistance with housing if desired. Present holiday arrangements honoured. Intending applicants are invited to inspect this modern pharmacy. Interview expenses refunded. Applications to Superintendent Chemist, Dartford Co-operative Chemists, Ltd., 93 Kent Road, Dartford, Kent. C 4823

POTTERS BAR. Pharmaceutical chemist required to manage substantial business in an attractive suburb. The position provides full scope for initiative and advancement. An adequate incentive will be provided along with a substantial basic salary. The successful candidate will be eligible for the company's superannuation scheme. Apply, stating full details and when available for interview to Box C 4837.

WEST END. Senior lady assistant to control cosmetic department and for general duties. Hours 9.30 to 6; alternate Saturday mornings. D. R. Harris & Co., Ltd., 27 St. James's Street, S.W.1. Whi. 8753. C 4834

ALKA SELTZER**JUNIOR REPRESENTATIVE**

aged about 25, with some experience of selling branded goods to retail chemists, required to cover East Midland territory comprising Notts, Lincs, Leics, Norfolk, Suffolk, Northants, Beds, Cambs, Oxon, Bucks and Herts. Connection desirable, but not essential. Excellent prospects. Car provided. expenses paid, superannuation scheme.

Apply, in own handwriting, giving full details to: Sales Manager (Confidential), Don S. Momand, Ltd., Nuffield House, Piccadilly, London, W.1.

C 6895

ALKA SELTZER**JUNIOR REPRESENTATIVE**

aged about 25, with some experience of selling branded goods to retail chemists, required to cover S.W. England territory comprising Berks, Hants, Wilts. Dorset, Somerset, Devon and Cornwall. Connection desirable, but not essential. Excellent prospects. Car provided, expenses paid, superannuation scheme.

Apply, in own handwriting, giving full details to: Sales Manager (Confidential), Don S. Momand, Ltd., Nuffield House, Piccadilly, London, W.1.

C 6896

Situations Vacant—Continued

PHARMACIST required as superintendent for busy main-road pharmacy near Croydon. Apply giving full particulars of age, experience, salary required, etc., to Box C 4845.

YORK CO-OPERATIVE CHEMISTS SOCIETY, LTD., offer positions to pharmacists of either sex in lovely City of York. One of these positions carries tenancy at moderate rental of a modern flat in one of the best residential suburbs. All are permanent, progressive and pensionable positions with good wages. Apply Superintendent Pharmacist, 22 Railway Street, York. C 327

LOCUMS WANTED

LONDON. Locum tenens pharmacist is required to undertake a tour of duties in the London area. There is a substantial salary and expense structure and varying periods can be arranged. Applications in first instance to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10. C 4840

RETAIL (OVERSEAS)

REQUIRED for departmental store in Ceylon M.P.S. as assistant to qualified manager retail pharmacy. Good terms, regular U.K. leave, all passages provided, good prospects for young bachelor, will consider married man. Apply, Millers, Ltd., 10 Ashley Place (Victoria), London, S.W.1. C 6908

WHOLESALE

ASSISTANT ANALYST required (male or female), Inter. B.Sc. standard with 2-3 years' experience in industry. Must have initiative and be willing to accept responsibility. Position offered is progressive. Commencing salary up to £500 per annum according to ability. Apply Chief Chemist, Potter & Clarke, Ltd., River Road, Barking, Essex. C 6915

BOTTLE SALESMAN WANTED. Salesman representative required with previous experience in selling bottles, jars and screw caps. Write giving full particulars to Reliance Trading Company, 75 Fairfax Road, London, N.W.6. C 6839

ALLIED LABORATORIES, LTD.

Medical Representative required for South Yorkshire, preferably resident in Sheffield, to take over and develop an established connection. Previous experience in this work is not essential but a sound medical or pharmaceutical background is necessary. Applicants should also be car owners. Remuneration is by salary, commission and expenses. An attractive pension scheme is in operation. Applications, giving details of career to date, should be addressed to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, London, W.1. C 6899

A **VACANCY** exists for the post of medical representative in Kent in an established company specialising in the sale of ethical preparations to the medical profession. Knowledge of the area and experience in the field of medical propaganda an advantage. Good salary and expenses. Car provided. Pension scheme. Write for interview giving full details to Calmic Limited, 2 Mansfield St., London, W.1. C 6871

ASSISTANT PRODUCTION CHEMIST required to supervise production of organic chemicals and pharmaceuticals. Qualifications H.N.C. in Chemistry or equivalent. Minimum salary £600 per annum depending on qualifications and experience. The welfare facilities include subsidised canteen, modern surgery with a doctor and qualified sister in attendance, and pension and life assurance scheme from the age of 30 onwards. Applications should be made to the Labour Manager, Winthrop Laboratories, Ltd., Edgefield Avenue, Newcastle-upon-Tyne, 3. C 6897

A **VACANCY** exists for the post of medical representative in the Aberdeen-Dundee area in an established company specialising in the sale of ethical preparations to the medical profession. Knowledge of the area and experience in the field of medical propaganda an advantage. Good salary and expenses. Car provided. Pension scheme. Write for interview giving full details to the Manager, Medical Division, Calmic Limited, Crewe Hall, Crewe, Cheshire. C 6870

A **VACANCY** exists for the post of medical representative in Manchester in an established company specialising in the sale of ethical preparations to the medical profession. Knowledge of the area and experience in the field of medical propaganda an advantage. Good salary and expenses. Car provided. Pension scheme. Write for interview giving full details to the Manager, Medical Division, Calmic Limited, Crewe Hall, Crewe, Cheshire. C 6869

BECAUSE of expansion of our Sales Force there are vacancies throughout the country for representatives to call on doctors, hospital and retail pharmacists. Applicants should have some pharmaceutical background or training and should be between 25-35 years. Previous selling experience will be an advantage. Remuneration is by salary and a prize scheme is operated. Expenses are allowed, company car provided and there is a non-contributory pension scheme. Applications giving full particulars of education and past experience should be addressed to Sales Manager, Lederle Laboratories Division, Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2. C 332

EXPERIENCED REPRESENTATIVE required, calling on chemists, to carry as additional line imitation jewellery on commission basis by large wholesale jewellery firm. Box C 6810.

HERBICIDES AND PESTICIDES. Chemist required for process control; also vacancy exists for analytical chemist with national company. Details in confidence to Box C 4825.

MEDICAL REPRESENTATIVES, either sex, required for London area. Experienced in calling on general practitioners. Whilst preference will be given to pharmacists, applicants should give adequate details of experience, education and/or academic attainments, to warrant consideration. Excellent position with good prospects offered to successful applicants. Apply in writing to the Managing Director, Biorex (Marketing), Ltd., 47/51 Exmouth Market, London, E.C.1. C 6909

MEDICAL REPRESENTATIVE required for London area. Applicants between 25 and 40 years of age will be considered. A good pharmaceutical background is an important asset. Previous experience as medical representative not essential as full instruction will be given. Please state age and salary required. Box C 326.

PARKE, DAVIS & CO., LTD.**MEDICAL REPRESENTATIVE**

Applications are invited from pharmacists, up to 35 years of age, who are interested in representing a pharmaceutical organisation of international repute in the following territories:

- (a) LONDON (two vacancies).
- (b) S. WALES.

These vacancies are particularly suitable for young, single recently-qualified pharmacists who are interested in making a career as a Medical Representative. Previous experience is unnecessary as training will be given, but candidates should have a good pharmaceutical background and a keen interest in ethical pharmacy.

Initial salary will be based on experience; subsequent adjustment will recognise initiative and ability. Company car provided. A generous pension and life assurance plan is in operation.

Write in the first instance for an application form to the: **PERSONNEL MANAGER, PARKE, DAVIS & COMPANY, LIMITED, STAINES ROAD, HOUNSLOW, MIDDLESEX.**

C 6888

COATES & COOPER, LTD.

Require a representative for the counties of Lancashire and Cheshire. Previous experience with both medical representation and selling desirable. Salary, expenses and commission will be paid. Company's pension scheme in operation, car provided. Details of experience to Coates & Cooper, Ltd., West Drayton, Middlesex.

C 6910

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Increased Production
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IMMEDIATE DELIVERY

The First British Aspirin Makers

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Barnet, Herts.

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C 6911

Situations Vacant—Continued

REPRESENTATIVES or sole agents required for several territories to carry superbly produced small range of medicated confectionery, etc., including one well-known uncompetitive and untaxed proprietary (non-seasonal). Excellent commission terms to commence and closed territories. The proposition calls for really live, energetic and able salesman of standing whose present commitments permit adequate attention to developing sales. The positions offer great scope with guaranteed regular repeats. Full details, including territory, in confidence. Box C 4846.

REPRESENTATIVE required by London firm dealing in all surgical and hospital requirements. Area to be covered would be London, Greater London and Home Counties. Good salary and all reasonable expenses to suitable applicant. Apply for appointment. Box C 6599.

THOMAS KERFOOT & CO., LTD., have a vacancy for a representative experienced in calling on chemists in the Glasgow, Lanark, Renfrew, Stirling and Dumfries area. Applicant should not exceed 35 years of age and must reside in or near Glasgow. A pension scheme is in operation and a company car is provided. Apply in first instance giving fullest details to Sales Manager, Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancashire. C 6867
WELL-KNOWN firm manufacturing nationally advertised hair cosmetics, require first-grade representatives for their Midland and Northern England territories. Applicants must have an active connection amongst retail chemists. Remuneration by way of salary, expenses and commission. Good prospects for enterprising men. Apply in first instance with fullest details to Box C 6918.

AGENTS WANTED

MANUFACTURERS of well-known proprietary sundries require agents or distributors for the following areas: London, Scotland, Wales, Northern Counties and Midlands. Applicants must have first-class connection with chemists. High rate of commission to the right men. Please write fully in strict confidence to Box C 4829.

SITUATIONS WANTED**RETAIL HOME**

IRISH chemist-optician (L.P.S.I., D.Opt.A.O.I.), 33, having nine years' experience as buyer-manager of retail pharmacy and five as consulting optician; thorough knowledge of photography, including 8 mm. and 16 mm. cine equipment, seeks progressive position in England. Good worker. Anything considered. Box C 4844.

LADY desires post with chemist. Fully experienced in drug and photographic counter work. District, West End, City or S.E. No Saturdays. Box C 4841.

LADY desires post as receptionist to doctor or dentist. Interview can be arranged. Box C 4842.

WHOLESALE

EXPORT/GENERAL SALES MANAGER. Thirty years' home and overseas experience with leading manufacturers and London merchant houses. Capable accepting responsibility complete administration, with sound contacts with foreign agents and London confirming houses. Sound buying knowledge allied with sales promotion and market development. Box C 4835.

EXPORT EXECUTIVE, 35 years' experience packed pharmaceuticals, ointments, powders, perfumery. Present yearly turnover £100,000, could be substantially increased by company with modern production methods and approach to packaging requirements of overseas markets. Excellent connections home and abroad. Sound knowledge manufacture and factory control. Would accept similar position with company wishing to expand their export business. Box C 4816.

P.H.C., experienced executive, sales management, medical promotion, skilled medical writer; manufacturing (pharm./vet./cosmetic). Possessor of original formulae and registered trade marks. Seeks interesting appointment, works or admin. (NOT London.) Where necessary, could attract large capital investment. Strictest confidence observed and required. Box C 4807.

BUSINESS OPPORTUNITIES

REPRESENTATIVES calling chemists, wholesalers and industrial medical officers are offered an opportunity to acquire a remunerative and well-produced speciality product on satisfactory commission terms with guaranteed closed territories. Experienced representatives of integrity and standing, fidelity bonded and whose present commitments allow of their adequate attention to a new product with considerable sales potential are invited to apply for further details of this proposition giving an outline of their qualifications and territorial interests to Box C 4806.

WANTED

LARGEST CASH BUYERS of photographic equipment of every description, outdated film and paper, etc. Spears, 14 Watling St., Shudehill, Manchester, 4. Phone Blackfriars 1916. Bankers: Midland Bank, Ltd. C 306

MEDICAL BOTTLES, tablet bottles, closures and all types of packaging materials purchased. No quantity too large. Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4, Mansion House 3951-2. C 178

ROBERTS or similar hot filler for ointment tins urgently required. Robert Blackie, Ltd., Pomeroy Street, London, S.E.14. New Cross 1122. C 4824

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

MISCELLANEOUS SALES

100 BAYS of brand new adjustable steel shelving, 72 in. high by 34 in. wide by 12 in. deep, stove-enamelled bronze green. Sent knocked down—6 shelf bay—£3 15s. Sample delivered free. Quantity discounts, N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lanes. Telephone: 69018. C 6554

SPRING GAY FASHION JEWELS

FREE LIST FROM
L. FRANKENBERG, LTD.,
37 HOUNDSDITCH,
LONDON, E.C.3

C 269

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